The National

Future Farmer

Owned and Published by the Future Farmers of America

Courtesy The Tennessee Future Farmer

February-March, 1956

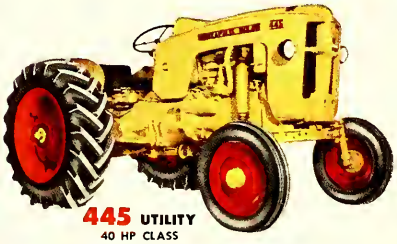
ALL NEW

MM MINNEAPOLIS-MOLINE

ALL THE WAY!

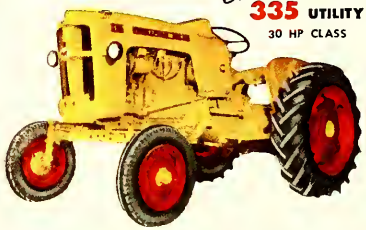
445 UNIVERSAL
40 HP CLASS
GASOLINE, DIESEL, LP GAS
AND TRACTOR FUEL ENGINES

meet MM's OUT-AHEAD tractors
the all-new POWERLINED series



445 UTILITY
40 HP CLASS
GASOLINE, DIESEL,
LP GAS AND TRACTOR
FUEL ENGINES

coming SOON!



335 UTILITY
30 HP CLASS

Go ahead! Look 'em over! You've got a *right* to be proud, because these are the tractors *you* helped build!

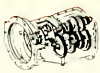
Here's the question MM asked thousands of farmers, county agents, agricultural experts, and farm machinery dealers . . . "What should a new tractor give you to make farming pay better today?" Then MM took the answers and turned them into one of the biggest advances in power farming history: the completely new Minneapolis-Moline out-ahead tractors . . . the POWERlined series.

Here are just a few of the many, many new MM advantages that make the MM POWERlined series all new from the ground up. For your *own* profit future, be sure you get *all* the facts, Now!

WRITE NOW FOR FACTS ON THE OUT-AHEAD MM 445!
. . . AT YOUR MM DEALERS SOON!

DYNAMIC NEW DESIGN!
The out-ahead POWERlined look.

BLAZING POWER!
All new valve-in-head engines.



EXCLUSIVE AMPLI-TORC* Revolutionary MM Speed-Power Selector.

NEW POWER STEERING* Steer with a touch on any ground.

*Extra Equipment

NEW 3-POINT HITCH Quick hydraulic hook-ups with 2-way control.

NEW IMPLEMENTS Matched to POWERlined farming.

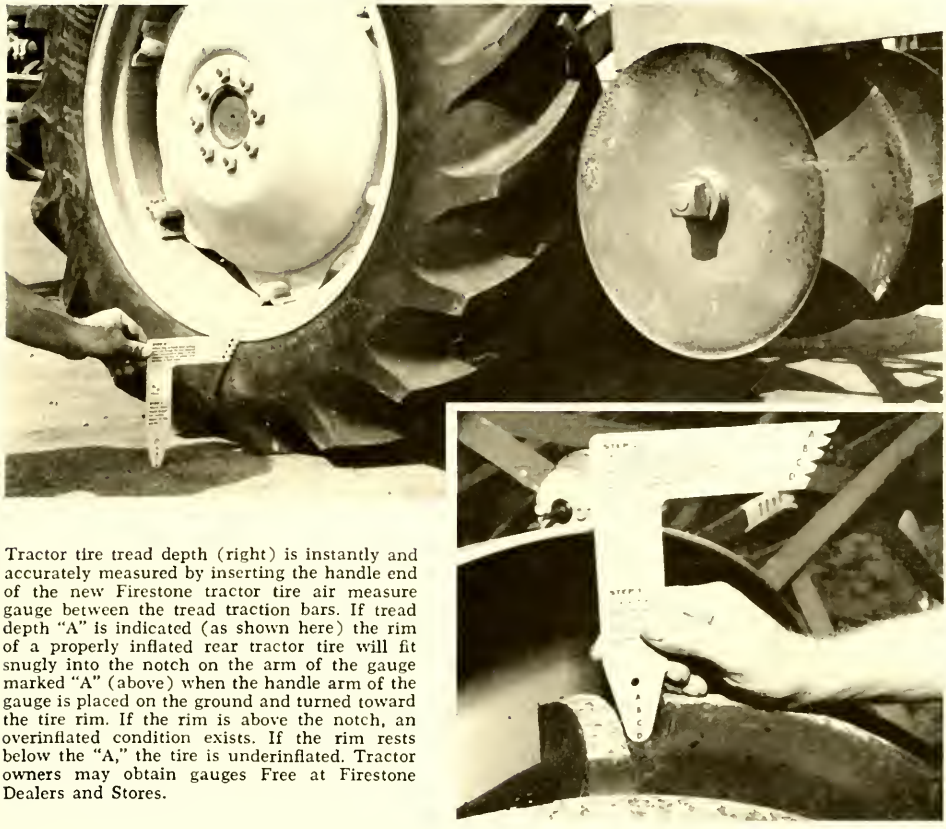
MINNEAPOLIS-MOLINE

MINNEAPOLIS 1, MINNESOTA

trusted quality since 1825

FREE Firestone AIR MEASURE GAUGE

Cuts Farm Tractor Tire Costs



Tractor tire tread depth (right) is instantly and accurately measured by inserting the handle end of the new Firestone tractor tire air measure gauge between the tread traction bars. If tread depth "A" is indicated (as shown here) the rim of a properly inflated rear tractor tire will fit snugly into the notch on the arm of the gauge marked "A" (above) when the handle arm of the gauge is placed on the ground and turned toward the tire rim. If the rim is above the notch, an overinflated condition exists. If the rim rests below the "A," the tire is underinflated. Tractor owners may obtain gauges Free at Firestone Dealers and Stores.

The new exclusive Firestone air measure gauge will eliminate 70% of premature tractor tire failures that are known to result from overinflation and underinflation of tires.

The new Firestone air measure gauge is so simple that even a child can use it correctly. It will always indicate correct tractor tire inflation to provide maximum traction, regardless of the metal or fluid weights applied to tractor wheels or the varying loads placed upon tires when different implements are used.

Firestone air measure gauges are available free of charge at Firestone Dealers and Stores. Tell your Firestone Dealer or Store Manager the size of the tires on your tractor and you will be given a gauge for that specific size.

THE FIRESTONE TIRE & RUBBER COMPANY, AKRON, OHIO

Enjoy the Voice of Firestone on radio or television every Monday evening over ABC

Copyright 1955, The Firestone Tire & Rubber Co.

Hold Tight!

Get a Better Grip on Your Work with PROTO Professional-Quality Pliers

Sensational "Multi-Plier" multiplies your gripping power 10 times!

There's no substitute for the *right* plier when you need it. Choose exactly the ones you need from the huge PROTO line — standards, midgets, side cutters, end nippers, slip-joint and special purpose pliers—all made from fine steels. You'll get powerful leverage, and comfortable, positive-grip handles. Buy the ones you need from your PROTO Dealer! Send 10¢ for catalog of entire line to

PLOMB TOOL COMPANY
2267Q Santa Fe Ave.,
Los Angeles 54, Calif.

Try Comfortable PROTO *Handeze* Plier Grips

More hand comfort with replaceable, colorful vinyl plastic grips! Three sizes fit most pliers. Many PROTO Pliers already equipped. See your dealer today!

5591

PROTO TOOLS
PROTO means PROfessional TOols

Eastern Factory, Jamestown, N. Y. • Canadian Factory, London, Ont.

The National
Future Farmer
Owned and Published by the Future Farmers of America

February-March, 1956 **Vol. 4, No. 2**

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ON OUR COVER

The young man on our cover has received the highest honor possible in the FFA—that of Star Farmer of America. He is Joe Moore, of Granville, Tennessee, who reached his goal in 1955 after seven years of systematic planning and hard work. Fully established in farming and a capable leader, all before he was of voting age, Joe exemplifies members of the FFA who believe in the future of farming. His farm consists of about 500 acres in the Cumberland foothills. He owns 85 acres and rents the rest from his parents, paying as much as $1,400 rent in '53 and again in '54. His livestock is valued at about $16,000. Joe says, "I hope and believe I can have a happy life for myself and help make America a better place in which to live by working on the soil God has given us." (See story on page 16.)

MAGAZINE STAFF

Box 29, Alexandria, Virginia

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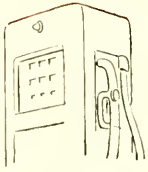
CHANGE OF ADDRESS: Send both old and new addresses to Editorial Offices, THE NATIONAL FUTURE FARMER, Box 29, Alexandria, Virginia.

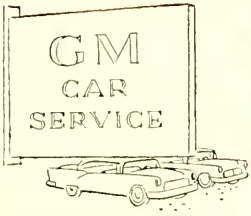
Wherever you farm...

You'll find AC Spark Plugs

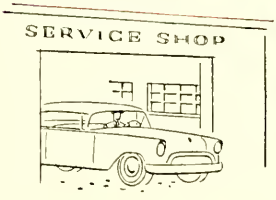
Where gasoline is sold . . .



GM cars are serviced . . .



at independent service garages and implement dealers



There are AC Spark Plugs specially designed for your car, truck, tractor or stationary engine!

One hundred and twenty-five thousand outlets throughout the country sell AC Hot Tip Spark Plugs. There's one near you.

As a matter of fact, thousands of American farmers are discovering there's an AC dealer just down the road. Service stations, GM car dealers, most independent service garages and farm implement dealers carry AC Spark Plugs. Ask any one of them for "Hot Tips" for your car, truck, tractor or stationary engine.

You'll be glad you did because AC "Hot Tips" burn away carbon and oil deposits as fast as they form. They keep costs down . . . keep plugs clean!

AC SPARK PLUG THE ELECTRONICS DIVISION OF GENERAL MOTORS

$2000 in CASH PRIZES for

Young Farmers

Twenty-five cash prizes totaling $2000 will be awarded young farmers, *not over 21 years of age*, for giving, in 75 words *or less*, the best reasons why they plan to use FEDERAL FERTILIZER on their farms during 1956.

IT'S EASY TO COMPETE!

Anyone within the above age limit who operates *or helps to operate* a farm within our area of distribution is eligible to compete. So get from the nearest Federal Fertilizer Dealer your Official Contest Entry Blank which gives full details including names of impartial judges.

25 CASH PRIZES!

First Prize, $500
Second Prize, $250
Third Prize, $150
5 Prizes of $100 Each
7 Prizes of $50 Each
10 Prizes of $25 Each

START NOW! CONTEST CLOSES MARCH 31, 1956

Plants and Offices at Louisville, Henderson and Lexington, Ky., Butler and Kennard, Ind., Danville, Peoria and Rockford, Ill., Columbus, Ohio; Nashville, Humboldt and Knoxville, Tenn.

FEDERAL
The World's Best
FERTILIZER

A Fellow Told Me...

FFA Week February 18-25

This is a time set aside for all of us to take time out from our varied activities and let the people of our communities know what's going on in the FFA. There are a lot of ways available, and we might want to see how many our chapters can use.

We could appear on radio, TV, civic club and PTA programs, get news articles in the local paper, hold parent-son banquets, present school assembly programs, prepare show-window exhibits . . . oh, yes . . . and give gift subscriptions to *The National FUTURE FARMER*.

Posters, special seals, and the like are good, too . . . and it may be we will get some such items from our state and national offices which we can use. Let's let folks know about the FFA . . . what do you say?

Let the home folks know about the FFA.

Money Raising Ideas

If you are interested in money-raising ideas for your chapter, don't overlook some good ones in the ads in this issue—pages 48, 49, and 52.

He's your Boy!

With the expanding circulation, and the increase to six issues, the problems of getting the magazine to you have made it necessary to employ a person to devote full time to the matter. Billy Howard was chosen to take over as Circulation Manager December 1.

Billy's a nice guy to get to know—in case you didn't know him when he was National FFA Vice President during 1951-52. He served as FFA Exchange Student to Great Britain for 1952 and the following year won the $1,000 National Soil Conservation Public Speaking Award. The magazine staff figured that a guy who could do all these things would have enough "get up and go" to see that we got our magazines—even if he had to deliver them in person. So let's write Billy if we miss a single copy!

Billy Howard
Circulation Manager

Dairy Cattle Judging Contest

There are a lot of judges in the United States—and I'm not referring to those dealing with *integration*—but those who *segregated* the good cows from the poor ones in the magazine's dairy cattle judging contest. (Maybe some of us did *integrate* the good and the poor cows . . . but most did very well.) You can see for yourself by the official placings. Further proof of our training is borne out in the article *The FFA in College*, page 24. (You'll want to read that, for sure.)

Since we made such a good showing in contests a couple of our advertisers are offering some nice prizes in this issue. *Federal Fertilizer* is offering $2,000 in prizes—page 6—and *Blatchford's* is offering $1,000 in prizes—page 52.

Official Placings
Dairy Cattle Judging

Ayrshire	B C A D
Guernsey	A D C B
Holstein	C A D B
Jersey	D B C A
Milking Shorthorn	B A D C

Hank

In 167 hours of FARMALL plowing

TORQUE AMPLIFIER

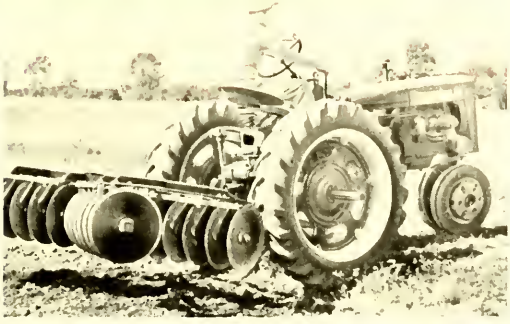
saved a slow-down or down-shift every 17½ minutes!

Torque Amplifier to the rescue—565 times in 167 hours of farm plowing! That's the tally of clocks and counters in a test conducted by an ag college. By avoiding slow-downs or down-shifting, TA can help step-up plowing as much as 10 to 15% daily!

When others balk . . . you GO! with Torque Amplifier for McCormick Farmall 300 and 400 tractors

Feel that on-the-go power increase of up to 45%, when you pull the Torque Amplifier lever! See how you sail through tough spots when others stop and shift down. Gain rounds, save fuel, with two speeds in each gear—*10 forward and 2 reverse!* Change speed instantly to match power to the load . . . or *stay in TA all day* if needed.

TA teamed with *completely* independent pto ends the need for auxiliary engines on balers, field harvesters and combines in most conditions. Keep pto speed constant, as you slow tractor and increase power with TA, to handle heaviest crops without slugging. On all jobs, TA gives 3-plow Farmall 300 or 4-plow Farmall 400 bonus work capacity.



Back . . . click . . . and go! Hitch or switch implements seconds-fast with Fast-Hitch for all Farmalls. Here's the two-plow, two-row Farmall 200 tractor with a hydraulically-controlled Fast-Hitch disk harrow.

Ask your IH dealer to demonstrate exclusive Torque Amplifier on McCormick and International 300 and 400 series tractors. Try Fast-Hitch, Hydra-Touch hydraulic control and other Farmall Firsts. Use the liberal IH Income Purchase Plan of Buying.

INTERNATIONAL HARVESTER

International Harvester products pay for themselves in use—McCormick Farm Equipment and Farmall Tractors . . . Motor Trucks . . . Crowler Tractors and Power Units . . . Refrigerators and Freezers—General Office, Chicago 1, Ill.

Send for FREE Catalog

International Harvester Company
P. O. Box 7333, Dept. NFF-A-2, Chicago 80, Ill.

Send catalogs describing tractors checked below.

☐ Farmall 400 (4-plow) ☐ Farmall 300 (3-plow) ☐ Farmall 200 (2-plow)
☐ Farmall 100 (1-2 plow) ☐ Farmall Cub (1-plow)

Name_____ ☐ Student

Address_____

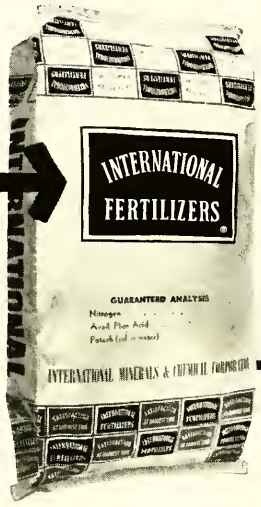
Post Office_____ State_____

I farm_____ acres. Principal crops_____

My IH dealer is_____

THIS
FAMOUS SIGN
Says

Satisfaction at Harvest Time



Profits go up as costs go down when you use *International Fertilizers*. Here's why:

- Expertly made from the finest raw materials.
- Accurately formulated and properly cured.
- Flow freely for fast, even distribution.
- Give your crops a strong start and steady feeding to maturity.
- Deliver plenty of crop-producing power to bring you the greatest return from every acre.
- Available in locally-recommended regular or multiple strength grades.

See your *International Fertilizer Dealer* now for prompt delivery of the goods you need.

plant food
DIVISION
INTERNATIONAL MINERALS & CHEMICAL CORPORATION
General Offices: 20 North Wacker Drive, Chicago 6

South China, Maine

I take *The National FUTURE FARMER* magazine. I am a student of Erskine Academy and am taking the vo-ag course. I read the magazine every time it comes out. I wish it could come out every month. I do like the idea of six for '56. I am a member of the Erskine Academy FFA Chapter. I like to read the tractor advertisements and the jokes. I also like the cattle stories.

James H. Esancy

Newport, Minnesota

I wish to comment on the fine work of the magazine publisher's selection of articles for *The National FUTURE FARMER*. Many of the articles are very inspiring and show the great courage and true spirit of the American farmer.

The National FUTURE FARMER should be voted the best magazine for American rural youth.

Robert Schusty

Manning, Iowa

I am a member of the Manning FFA Chapter. I am a senior and have been an FFA member during this time. I enjoy *The National FUTURE FARMER* very much and I hope to enjoy the six in '56.

I attended the National FFA Convention at Kansas City this fall, and this being my first visit there, I really enjoyed it very much, especially the awarding of the Star Farmer of America and the National Star Farmer. I feel that the FFA has helped me greatly in my everyday life.

Roger Barten

Eustace, Texas

I just received the fall issue of *The National FUTURE FARMER* and I have been receiving it since the first of the year.

I enjoy everything about it. I sit down and read it and before I know it I have read it from cover to cover, but that is not all. I read it about three times a week and get more enjoyment out of it every time. Wish it had a lot more in it. Sure am glad to know that there will be six issues in '56, maybe soon it will be a monthly magazine.

This is my junior year and wished that I could have subscribed to the magazine in my freshman year. I was president of the Eustace Chapter in '54. I think that *The National FUTURE FARMER* is the biggest little magazine in the U. S. Keep up the good work.

Bobby Copprell

Faribault, Minnesota

I'm enclosing my Dairy Cattle Judging entry blank in with this letter. I sure like to see them in the books. I only hope you have more of them in later on. I am also happy to see that you're going to have six magazines in '56. I would like to have you write me if you can and tell me the placings if you can.

I'd like to thank you very much for putting these contests into the magazine.

Joe D. Pesta, Jr.

Fayetteville, North Carolina

Enclosed you will find payment for 67 subscriptions to the *FUTURE FARMER* magazine. This makes Central Chapter 100 percent in subscribing to the magazine for this year. Our Chapter has been 100 percent since your first year and we all think that you have a great magazine.

We will appreciate it even more with six copies coming in. Keep up the good work and Central FFA Chapter will be pulling for you 100 percent in all your efforts and we stand ready to be of service any time if we can help in any way.

W. S. Boyd

Hartford, Connecticut

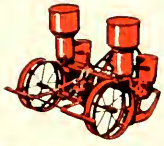
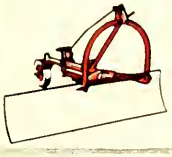
I have taken *The National FUTURE FARMER* for a year and a half and find it very interesting. I liked "Star Dairy Farmers" and liked the article by Paul Miller, "I Worked on a Farm in Sweden." I come from Vermont and have lived there thirteen years. I would like to know if you could write an article on farm courses and farm boys' life. I would appreciate it very much.

John Walsh

AMERICA'S LARGEST

"Pick up and Go" Family

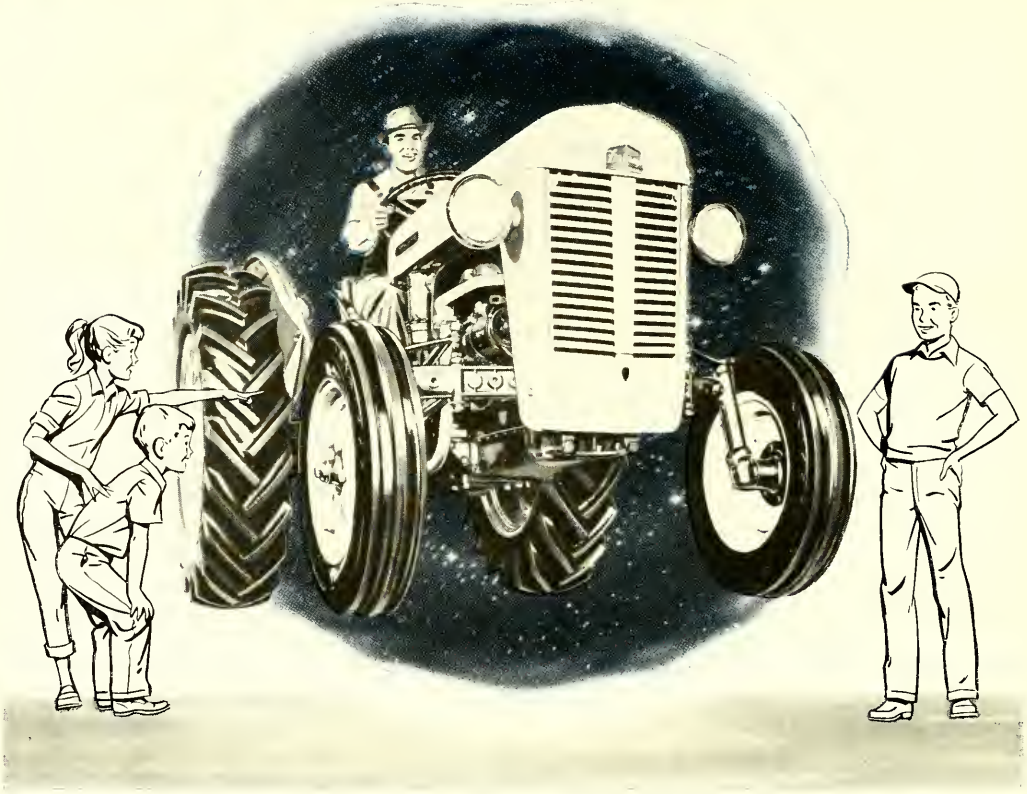
Over 70 quick-attached mounted implements... and 11 Ford Tractor models

Moldboard Plows 1, 2, and 3 bottoms	Disc Plows	Subsoiler	Tandem Disc Horrows	Bush and Bog Horrow
Planters 	Rear Attached Mowers	Mounted Side Delivery Rake	Rotory Cutter	Field Cultivator
Adjustable Rear Blades 	Reversible Scoop	Crone	Cordwood Saw	...and MANY MORE

TRACTOR AND IMPLEMENT DIVISION • FORD MOTOR COMPANY • BIRMINGHAM, MICHIGAN

Ford Farming

GETS MORE DONE... AT LOWER COST



DREAMS DO COME TRUE

Just look around you ...every day

● Each of us likes to dream, at least sometimes. And among our favorite dream subjects is the future. It's good that we have these moments of reverie, because it is from dreams that progress comes.

But many times we fail to recognize that a part of the future is here, all about us—*right now.*

In the past, new lands stretched before us toward an unlimited horizon; opportunity appeared boundless for those who would make their living from the soil; wealth and security were within the grasp of everyone willing to venture into these new lands.

Today, however, our land frontier is virtually gone. But in its place is one of equally exciting promise—*agricultural technology.* Great discoveries in the laboratory... radically improved machines and tools . . . highly improved methods of farm production . . . enlightened agricultural leadership—all have brought a burst of tremendous acceleration to agricultural progress. So many of our dreams have come true that much of our future is literally here, now.

So let's continue to dream, but let's also take time to look around, to discover, each day, those dreams that have already come true.

Ferguson

Racine, Wisconsin

Reader Roundup

Pauls Valley, Oklahoma

I am a member of the Pauls Valley, Oklahoma FFA Chapter. I have read all of the magazines that I have received from cover to cover. It is a very interesting magazine. After I am out of the FFA I plan to keep on taking it. I am very glad that we are going to get six issues for '56.

Dean Isaac

Kenyon, Minnesota

I read your magazine and like it very much. My ag teacher said that I should write to you and tell you that we like the judging contests and wish you would put one in on hogs and sheep. It is very good practice. I am a sophomore in high school and a member of Kenyon Future Farmers.

Harlow W. Miehl, Jr.

Duffer, Mississippi

I am a member of the Beulah Hubbard Chapter and have been for the past two years. I sincerely enjoy *The National FUTURE FARMER* magazines. Since I am on the dairy judging team I enjoyed this contest better than the others. Just keep up the good work and we will have better farmers in the future.

Buck Munn

Vassalboro, Maine

I am a member and vice president of the Erskine Academy FFA Chapter in South China, Maine. I have been getting your magazine for the past year and enjoy it very much. I was pleased to hear and read about it coming out six times a year instead of four. The magazine is talked about by all Future Farmer members at our school.

The National FUTURE FARMER contains information which helps all boys that are going to make farming their career.

Joe Suga, Jr.

South China, Maine

In regard to your story in the Fall issue of *The National FUTURE FARMER*, about Doyle Conner, by Doris Cox, titled "You Can Do It, Too," I believe we can! I think you should have more stories and jokes to make the magazine more interesting.

Robert Dowe

Newby, Oklahoma

Just got my issue of *The National FUTURE FARMER* and read it through. It gets better and more interesting every issue—sure hope you can get it as a monthly magazine. I think it's tops—keep up the good work. Would you please send me each of the

America's agricultural future is indeed in capable hands. The nation's farm youth by the hundreds of thousands each day are actively demonstrating their capacity to make the most of the tremendous opportunities that are theirs . . . and at the same time meet important responsibilities. Not only are they preparing for the future, but many of them are playing active roles in the present . . . with impressive records of achievement.

A shining example is 1955 FFA Star Farmer Joe Moore, of Tennessee. This outstanding young man, working first as a vocational agriculture student at Gainesboro, Tenn., high school, became a full-time farmer when he graduated three years ago. Since then, through careful and astute management, he has built his livestock, equipment and land into a sizeable farming investment. Today he operates a farm of 525 acres — 85 his own and 440 rented from his parents. His holdings include more than 100 head of purebred and commercial cattle, 88 sheep and nearly 100 head of hogs. By clearing land, rebuilding worn-out soil, reseeding pastures and many similar projects, he has made his farm much more valuable than it was before.

Joe Moore is symbolic of the finest in America's farm youth! Armour Fertilizer Works is proud to salute this Star Farmer and the thousands of other young men and women who make this nation's agricultural future so bright!

ARMOUR FERTILIZER WORKS

NOW!

Feed your Calves this MODERN WAY!

A 2 quart PLASTIC Suckle bottle and rubber calf nipple for

ONE DOLLAR!

Absolutely unbreakable. Won't rust or crack—will not dent—weighs only 8 ounces—withstands boiling water—acid—cold—tested at Carnation Farms—plus new design—heavy duty—calf size nipple that won't pull off, or clog—pre-punched hole.

Here's the New Way to Feed Calves

No wasted ingredients, because no mineral or vital nutrients can settle out in plastic bottles.

Polyethylene Suckle calf bottle is translucent and calibrated from 1 to 3 pts. for easy measuring.

Special added offer—with each order for a plastic Suckle bottle and nipple, a coupon worth 50 cents on the purchase of 25 lbs of Suckle—a nursing feed for young animals—mail this coupon today. Feed your calves the modern way.

Please send me_____plastic 2 qt. Suckle bottles and rubber calf nipples.

Name_____

Address_____

City, State_____

Enclosed is my ☐ check ☐ money order ☐ cash, in the amount of _____. (Send $1.00 for each bottle and nipple.)

Make checks payable to:

Albers Milling Company
314 FAIRFAX BUILDING
KANSAS CITY, MISSOURI

Offer expires April 30, 1956

Reader Roundup

free booklets as listed under "Free for the Asking;" would really appreciate it. I'm collecting booklets on agriculture and FFA work.

Dwayne Tallent

Moatsville, West Virginia

I am an FFA member of the Kassou Chapter and I am in my second year as a vo-ag student. I want to tell you that I am very interested in your magazine and enjoy it very much. I would like an FFA Supply Catalog. Thank you.

Jimmy Havatter

Hallett, Oklahoma

I enjoy *The National FUTURE FARMER* very much, especially the judging contests. I would appreciate it very much if you would have a poultry judging contest in your magazine sometime this winter.

Lewis Dressler

Henderson, Texas

Here is my entry for the dairy judging contest. Please send any information on dairy judging for practice. I am very proud of our magazine, *The National FUTURE FARMER*, and wish you could publish it every month.

Franklin Hudson

Tyringham, Massachusetts

Please accept apologies for my little daughter, Martha, who tucked away in her toy box the letter my son, Donald, wrote and expected I had mailed to you, telling you how much he liked and appreciated the Argus camera he received as third prize in your contest last year.

He is too embarrassed to explain, but I feel you should know what happened and that he did feel very happy over receiving the wonderful camera. We all enjoy your excellent magazine.

Mrs. Richard E. Birkett

Blackduck, Minnesota

This is my first year of agriculture and I received my first magazine of Future Farming. I like it very much.

Ray Michalko

Laredo, Texas

I am a Future Farmer of the Laredo Chapter, and I would like to congratulate you on the valuable information *The National FUTURE FARMER* magazine has.

Reynaldo Castro

Anton, Texas

Congratulations for a nice job on the publicity of *The National FUTURE FARMER*. I am a member and Chapter Farmer of the Smyer FFA Chapter.

Don Emmnos

"In just a few months,

we have saved nearly one hundred dollars with our Dodge truck"

Says Raymond F. Peterson, Route 3, Bradford, Ill.

"Our Dodge pick-up does double duty—as a truck and as a family car. That's why my wife and I take real pleasure in the easy way it rides, and the roominess and comfort of the cab.

"Workwise, I use the pick-up for jobs like carrying feed for our cattle, hogs, and chickens, or going to town for groceries and more feed. We figure we have saved nearly a hundred dollars in just a few months with our Dodge truck—it costs so much *less to operate* than any other truck we ever owned."

Farmers in every part of the country are discovering that a Dodge truck *gives them more*—in power and style, in economy and dependability—but *costs them less* than most other makes. Why not visit your Dodge dealer, and see for yourself?

"...Dodge does double duty as a truck and family car."

DODGE Job-Rated **TRUCKS**

WITH THE *FORWARD* LOOK

Looking Ahead

COTTON PROBLEM

Cotton experts are still trying to find out what happened. Seems that the experts were way off in estimating the cotton crop—about a million bales more than they predicted! Production has now climbed to an average of about 430 pounds per acre! Check this against the average yield per acre during the ten years from 1944 to 1953 of about 275 pounds. This means a sharp cutback in cotton support prices.

HOG WASH

As of the first day of January, 1956, any hog fed raw garbage at any time in its life cannot be transported across state lines—except for slaughter or special heat treatment. Nor can the products of such hogs be moved interstate, unless specially heat treated or to be heat treated. So remember, fellows, some of that slop isn't fit for the hogs!

CORN SHIRTS

Zein fiber, developed from corn protein by USDA scientists, is becoming commercially popular as a blend with other fibers in the textile industry. Already worth four or five million dollars a year, the new fiber is a by-product of the starch industry. It adds softness to wool, warmth to nylon, and will not shrink.

TWO FOR ONE

Fertilizer-pesticide mixtures are now registered and sold in 40 states and Puerto Rico. It is believed, however, that they are sold in almost all states, since some do not require registration of custom mixes. While the two-in-one mixture represents less than 1 per cent of the fertilizer mixtures sold in the United States, the use increased 71 per cent last year. South Carolina, where the mixes were pioneered, continues to be the leading state in tons used annually.

TIMBER TALK

What with population expected to be about 210 million by 1975, and the yearly increase in timber product uses climbing faster than timber can be grown, farm woodlots offer more opportunity each year to the smart farmer. Farmers own about half of the nation's commercial timber land—about 50 per cent of this is in holdings of less than 30 acres of forest or timber land. These areas, if properly managed, can supply millions of feet of lumber and timber products in the years ahead—and put millions of dollars in the pockets of the farmers smart enough to cash in on the future.

"When you want POWER.. you want PETERS 'High Velocity'"

says **DEL MYERS** of *Urbana, Illinois*

"My wife and I find hunting the greatest sport of all. Whether we're down in Mexico on the trail of treacherous jaguar . . . deer hunting in Colorado . . . or out after woodchucks near home, we use Peters 'High Velocity' ammunition for its knockout punch.

"Peters let me start off last year's deer season with a real thrill. I got a fine buck at 450 yards using a Peters 300 Magnum."

Thanks, Del. That's what veteran shooters, hunters and guides everywhere are saying about Peters "High Velocity." Remember . . . whether it's pests or varmints or big game you're after . . . there's no more powerful ammunition in the world than Peters "High Velocity."

PETERS CARTRIDGE DIVISION, BRIDGEPORT 2, CONN.

"High Velocity" is a trademark of Peters Cartridge Division, Remington Arms Company, Inc.

From woodchucks to deer—Peters new "High Velocity" 244 Remington caliber vermint cartridge cambines exceptionol speed with a 75 groin pointed soft point bullet. Ballistics tests prove its terrific striking energy at long ranges. This new Peters "High Velocity" cartridge is also available with a 90 groin pointed soft point bullet packing extra knockdown power for bigger game such as deer and antelope.

PETERS packs the POWER

DU PONT

MAKING WOOD SERVE AMERICA BETTER THROUGH GOOD FOREST MANAGEMENT

GEO. S. LONG, 1855-1927, ... the first f... pres... tion. As Weyerhaeuser Timber Company's first ... he ... cruised company lands. He also helped ... perfect ... for ... p...

key to future forests...the tree-growing power of the land

Douglas fir tree farms are clear-cut in staggered patches. Seeds from trees left near-by soon reforest the harvested lands ...assuring a wood supply for the future.

Early in the present century, Geo. S. Long and other forestry leaders in America realized that the nation's future wood supply depended upon keeping forest land productive. Mr. Long, particularly, sensed the greatest assets of the forest industry as being the soil itself and the reproductive power of trees. Summarizing this concept, he said, "...we hope to so shape harvesting operations that they will bring about that ideal balance between forest reproduction and utilization which will make our industry as nearly perpetual as possible."

This vision and faith in both the future and stability of the nation's industrial forests by men such as Geo. S. Long led to the modern timber and land management practices forming the basis for today's nation-wide tree farm movement. The movement began with the dedication of America's first tree farm by Weyerhaeuser Timber Company in June, 1941. Today, all company forestlands, as well as those of 7,340 other private owners, are operated as tree farms...a total of about 37 million acres dedicated to growing timber as a crop. *Write us at Box C, Tacoma, Washington for our free booklet, Tree Farming in the Pacific Northwest.*

Weyerhaeuser Timber Company

WEYERHAEUSER

A SOLARI

Life changed overnight for these Star Farmers. Sharing top honors with Joe Moore are Regional Star Farmers Lynn Loosli from Ashton, Idaho, with Richard Arnold of Plainwell, Michigan, and Ross Smith, Jr., from Monkton, Maryland.

Life of a Star Farmer

By John Farrar

JOE MOORE of Granville, Tennessee, was surprised when he was named Star Farmer of America at the 1955 National FFA Convention. He was even more surprised at the events that followed.

Immediately he was met by a whirlwind of photographers and reporters. Among them was his old friend, John McDonald of radio station WSM, Nashville, who was holding a direct line open to his station so the folks at home would be the first to hear a radio interview of the new Star Farmer of America.

That some folks had been given advance information about the award became apparent when his state Executive Secretary, Sam Sparkes, handed him a copy of the *Tennessee Future Farmer* magazine with Joe's picture in full color on the cover. There was another publication waiting for him—an advance copy of the *Weekly Star Farmer*, showing pictures and story about the Star Farmers that would reach farm homes in the Midwest with the next day's mail.

Joe made several radio appearances Wednesday morning for local stations, and transcriptions for other farm editors covering the Convention. Then, in the afternoon he went with the National FFA Chorus to participate in Eddie Fisher's nationwide "Coke Time" TV show.

Later that week he made transcriptions to be used on the Saturday "Monitor" network program, and another for presentation on the National Farm and Home Hour. Saturday morning Joe joined the new National FFA President, Dan Dunham, of Lakeview, Oregon, to ride as featured personalities in lead cars of the American Royal Parade.

And it was just the beginning!

Arriving home in Tennessee, Joe was greeted with a parade and celebration in his honor put on by the citizens of his home state. He was showered with congratulatory letters and telegrams. Just a week after his award, *Time* magazine appeared on the newsstands with a painting of Joe on the cover, and a four-page story about him inside.

The editors of *Time* invited him on an expense-paid visit to their Chicago headquarters where he made more radio and TV appearances. While in Chicago he received a call from national FFA headquarters asking him to come to Washington and join President Dan Dunham in receiving a special citation to be given by the United States Army to the FFA.

During their stay in the Capitol, Joe and Dan visited with Marion B. Folsom, Secretary of the Department of Health, Education, and Welfare, and appeared with Claude Mahoney on the CBS Farm News radio program.

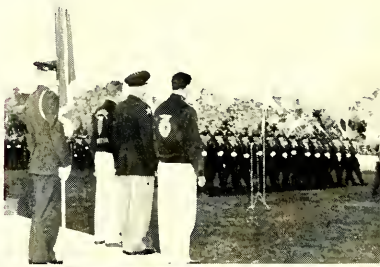
Back home again, and gradually getting caught up with the work on his 500-acre farm, Joe was called to travel again! This time it was to New York, where Arthur Godfrey featured him on his "Godfrey and his Friends" national TV show.

Joe is at his farm now, perhaps wondering a little about this fabulous Star Farmer Award that, overnight, makes a fellow famous. He'll do more travelling, going with the national FFA officers in February on their annual Good Will Tour. Perhaps there will be other assignments.

Although his expenses are paid on these trips, time away from the farm costs money. But Joe never ducks an engagement.

"What I am I owe to the FFA," he said. "Anything that I can do to help the FFA I will do."

With FFA President Dan Dunham and Maj. Gen. John H. Stokes, Joe occupies the reviewing stand at the Army ceremonies honoring the Future Farmers.



Joe went with the National FFA Chorus to appear in Eddie Fisher's nationwide television show. That's Eddie on the left sporting an official FFA jacket.

Introducing...

Here are your national officers for 1955-56 — the fellows you have chosen to represent you and the FFA throughout the year. They will truly be good-will ambassadors for agriculture as they meet with men in business, industry and government on the annual Good Will Tour and other official duties in behalf of the FFA.

YOUR NATIONAL OFFICERS

Seated...

DAN DUNHAM . . . national president from Lakeview, Oregon . . . youngest (19) officer . . . received American Farmer Degree, 1955 . . . winner of state public speaking contest last year . . . past Oregon state president . . . member of 1952 and '54 winning parliamentary procedure team . . . has one-third interest in 875-acre ranch consisting of 150 head of beef cattle, 200 acres wheat, 185 acres barley, 50 acres oats, 60 acres alfalfa hay and pasture . . . studied at Oregon State College but now runs the ranch.

TERRELL BENTON, Jr. . . . 20 . . . national student secretary . . . from Jefferson, Georgia . . . shares 200-acre farm with parents . . . rents 30 acres himself . . . has program of 33 acres of cotton, 15 acres of corn, 39 acres small grains and feed crops; four feeder steers, three head of dairy cattle, two purebred Hampshire gilts . . . offices include state FFA president, president of Junior and Senior class in high school . . . editor of yearbook, business manager of school newspaper . . . Sunday school superintendent.

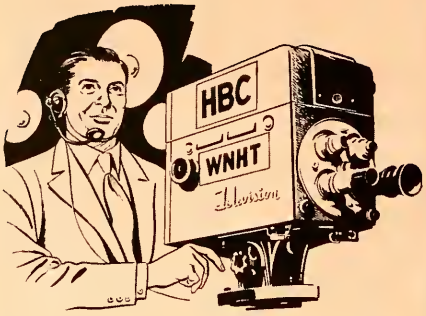
LENNIE GAMAGE . . . Southern Region vice president . . . 20 years old . . . hails from Cartersville, Virginia . . . studying ag education at Virginia Polytech . . . has one-third interest in 640-acre home farm that boasts 120 head of Shorthorn beef cattle, 38 acres corn, 30 acres small grain, 66 acres hay, 20 acres lespedeza . . . helps farm the remaining acres of timber and crop land . . . was Chapter president and president of Virginia Association . . . district winner of public speaking contest.

Standing...

DALE RING . . . 20 . . . vice president, Central Region . . . lives on 142-acre dairy and poultry farm near Wooster, Ohio . . . enrolled in Ohio State University studying agricultural education . . . keeps about 500 laying hens, 20 head of Holsteins . . . crops include 35 acres of corn, 40 acres of hay, 25 acres of wheat . . . owns some farm machinery . . . past Ohio FFA president, delegate to National Convention . . . held other offices . . . elected outstanding Senior boy in high school . . . president of county Holstein Club.

LYNN LOOSLI . . . Pacific Region vice president . . . 20 . . . from Rocky Mountain section of eastern Idaho . . . Star Farmer of Pacific Region, 1955 . . . studying ag education at Utah State College . . . irrigates all 160 acres of home farm because of low rainfall in that section . . . projects include 35 registered Hereford cows, some calves and two herd bulls . . . rents 25 acres from father for potatoes . . . owns 40 acres used for pasture . . . owns own equipment . . . has held offices in Chapter and State FFA.

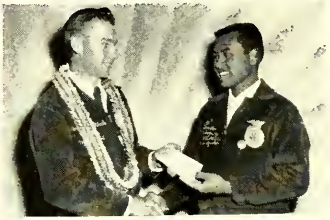
ALLEN COLEBANK . . . Morgantown, West Virginia . . . North Atlantic Region vice president . . . 20 years old . . . Star State Farmer, 1954 . . . partner with father on 350-acre farm . . . has 80 head of Herefords, 500 laying hens, 50 acres of hay, ten of grain and 200 turkeys . . . now enrolled in ag education at West Virginia University, where he is president of the collegiate FFA and plays football . . . has held various offices in state and local FFA, including state president.



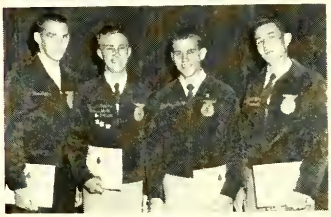
Let's look at Our National

CONVENTION

Blue jackets took over in Kansas City when 10,500 Future Farmers moved in and national attention turned to their many activities.



Liberato Viduya, at right, first Hawaiian ever to win in public speaking.



"Foundation Night" saw top awards presented in four national contests.

The nominating committee is always a hard-working group at the Conventions.

All eyes are on stage as American Farmer Degree ceremony gets underway.

SINCE THE NATIONAL CONVENTION is growing every year, we were prompted to ask just what influence it is having on members of the FFA. For our answer, we went to the fellows who had just reached the top rung on the ladder—the American Farmers of 1955.

Of the group answering our query, over half said their attendance at a previous Convention had inspired them to work for the higher degree. About 35 percent had attended only the Convention at which they were awarded the American Farmer Degree, so naturally it had not caused them to work harder for honors in the FFA. Of the rest, many said they acquired the desire to become an American Farmer when they first enrolled in vo-ag and became an FFA member; some credited their vo-ag teacher, parents, and others.

In most all cases, however, the National Convention got a big vote of approval from the American Farmers, so good that some of the quotations are

printed here so you can see how we see ourselves, through the eyes of members.

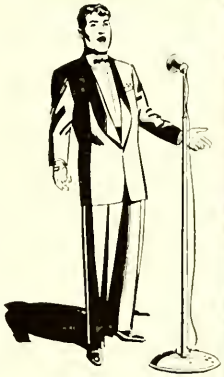
"I can sincerely say I've never learned so much and enjoyed myself any other time as I did during those four days of the National Convention." Albert Bernhardt, Wiggins, Colo.

"The inspiration which I have gotten from the National Convention has helped me to become an American Farmer." Robert E. Baumgart, Mt. Carmel, Ill.

"It was at the Convention that I first became aware of what a great organization the FFA is." Jim Davis, Ipswich, S. Dak.

"I think the thing that impressed me most was the way a large group of boys and men can work together so smoothly. You can really see the benefits of trying to go somewhere and make something out of yourself when one attends the Convention." H. Preston Richardson, Jr., Sugar Grove, Va.

"The Convention is very educational to the FFA member as well as the general public." Jack Good, Lamar, Colo.



Eddie Fisher entertained Future Farmers and sang with National FFA Chorus.

The Grillots from Kansas. Both father and son hold American Farmer Degrees.

Among the visitors were these Exchange Students attending from Britain.

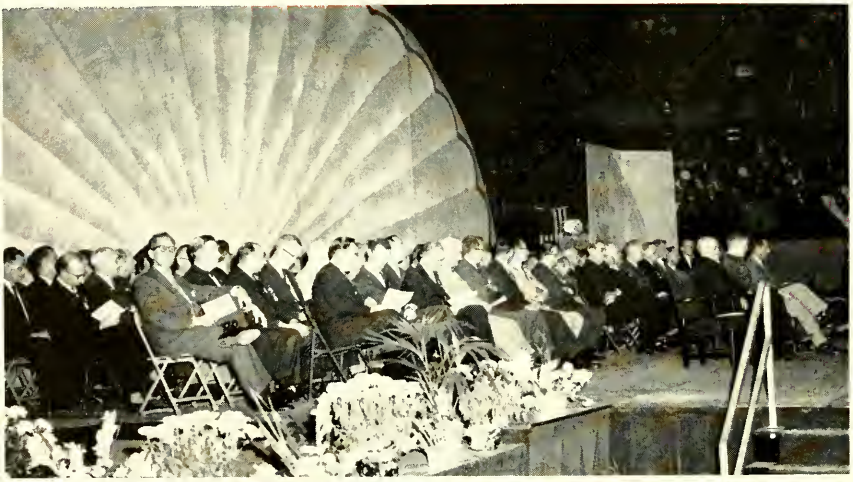
Scene from the colorful pageant on the theme of "Patriotism and the FFA."

President Bill Gunter is shown presenting honorary American Farmer Degrees.

A two-hour show was provided by Firestone Tire and Rubber Co.

Future Farmers mingle with

OUR NATION'S LEADERS



Donors to FFA Foundation were platform guests at the Wednesday session.

A good one is passed between U.S. Sen. Darby, Gunter, and Wright At right, Mayor Bartle of Kansas City had Future Farmers chuckling.

Left, Mr. Woolsy of Chrysler talks with Future Farmers at reception. Right, Pres. A. Z. Baker, Rotary International, a featured speaker.

At Sears luncheon, E. J. Condon, Bill Gunter, and Harold Stassen. Right, FFA President Bill Gunter and Mr. Newsom of the Grange.

"My greatest surprise was the size of our FFA organization." Douglas Moore, Marked Tree, Ark.

"It creates more interest in agriculture through the speeches, business sessions, and fellowship with fellow members throughout the nation." Clarence Frazier, Union City, Ind.

"When I attended the National Convention, I saw boys who were tops and I wanted to get there myself. I had been working toward the (American Farmer) Degree and now I was determined to work even harder." DeWayne Hodges, Sevierville, Tenn.

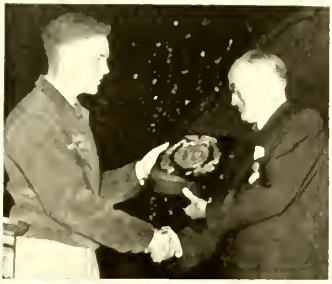
"The way the national officers carried out the meetings was very impressive." Gale Horn, Broken Bow, Nebr.

"Although this was my first trip to a National Convention, I think that had I attended before, I would have worked harder to have a better farming program." Billy Shiley, Musselman, W. Va.

"I appreciate the banquets the different companies and organizations had for us." Ralph Weirich, Baraboo, Wis.

"I have always been impressed at our National

. . . . honor them with a plaque for a job well-done, reception for FFA Foundation Donors, and Honorary Degrees to one group.



Mr. A. F. Davis, Chairman of Foundation Sponsoring Committee, gets a plaque.

Shown are Reuben Smith, Allis Chalmers, and Bob Norrish, Armour, with FFA members at the reception.

Secretary of Agriculture Benson's speech went over nationwide radio network.

At Tuesday's meeting the Honorary American Farmer Degree was conferred on several leaders.

President Gunter, right, passes the gavel to Dan Dunham, president, 1956.

Fond memories are carried home as Convention becomes history.

Convention by the interest that businessmen of our country show in the FFA." A former Minnesota State President.

"The Star Farmer ceremony is one of the many things every boy in FFA should see, even if only by movies." Franklin Stehno, Billings, Okla.

"The Conventions are very educational." Rexford Price, Mt. Olive, N. C.

"I think that every FFA member should strive to attend the National Convention some time during his FFA active membership." John Watkins, Fayetteville, Ark.

"The ceremony in which the Star Farmers are nominated and elected, I think, is the most inspiring session of any National Convention. Anyone who can sit in the meeting hall unimpressed certainly is not a member of the Future Farmers' organization." Gerald W. Truesdell, Westville, S. C.

And on and on the quotations go. We only regret that space would not let us print more of them.—Ed.

TURKEYS led the way

CHUCK ZIMMERMAN put himself in big business. He did it in just five years with turkeys leading the way. Now, with over 9,000 turkeys a year and other farm projects, he has come a long way toward his goal—established in farming on his own farm.

This 20-year-old Future Farmer received his American Farmer Degree last year and was Star Farmer of Minnesota in 1952. Just a few years before, he had nothing but a burning ambition to be a farmer, and $450 of borrowed money.

Chuck started his farming program with 300 broilers and one gilt on the family farm, about six miles out of Northfield, Minnesota. "But it wasn't hard to get him interested in turkeys," says Ruben Hovland, his vocational agriculture teacher, who also raises turkeys.

In 1950, Chuck started with 450 birds. He raised this to 1,200 Bronze in 1951, and almost twice that many in 1952, plus 2,500 Beltsville Whites. By the time he graduated from high school in 1952, Chuck had netted almost $5,000 from his three-year projects. Now he raises 9,500 turkeys, besides purebred Duroc hogs from eight sows, and 20 acres of corn.

There is no competition with the farming program of his dad, Herb Zimmerman, who keeps a dairy herd and engages in grain and corn farming on his 280 acres. Chuck says, "I built my farm program with full ownership of each enterprise. I use dad's tractor and machinery in return for work I do on the farm. My father also gives me an indefinite amount of corn in return for work."

Chuck credits his family with a lot of assistance, especially sisters Annie and Katie, who helped with the brooding when other farm work took his extra time. Chuck's mother kept watch over the poults while he was in school.

Advisor Hovland says that a remarkable thing about Chuck's enterprise is that he has made all his turkey equipment himself. It includes such things as a brooder house, sun porches, rain shelters, self-feeders, and waterers. When the daylight hours did not give Chuck ample time he set up portable yard lights and worked at night. His tools, which include an electric power saw, are stowed neatly in a cabinet-on-wheels that he built.

Chuck finances his operation with the State Bank of Northfield at regular farm rates. He is a stockholder of Faribo Turkeys, Inc., a cooperative processing plant. He is also a stockholder of the Dennison Cooperative Elevator and the Northfield Farmers' Cooperative Elevator, where he buys all his feed.

Throughout high school, Chuck was active in the state and local FFA. He served as treasurer of the Northfield Chapter, and also as secretary. At the 1952 Minnesota Convention he was elected state treasurer, and later that year, Star Farmer of Minnesota. His Duroc hogs have won prizes at Rice County and Minnesota State Fairs in the FFA division.

Chuck's ambition to have his own farm will have to wait for awhile. In December he was inducted into military service. "My most pleasant thought," says Chuck, "is that in two years I can once again get back to the farm."

Chuck is shown looking over his turkey operations with Advisor Ruben Hovland. His private plane is shown at left, a Cessna 140, bought with farm profits.

CORN NEEDS NITROGEN TO MAKE ITS BLOOD GREEN!

It takes nitrogen to make chlorophyll, the essential green matter in plants, which closely resembles in its chemical structure the hemoglobin that makes human blood red. Since chlorophyll is the vital essence of plant life, scientists delving into the secrets of plant growth call it "green blood."

Chlorophyll traps sunlight to make plants thrive. The dark green color of growing crops, well supplied with nitrogen, and the higher yields they produce show the importance of nitrogen to life in plants.

To keep an acre of corn growing green and strong to the point of yielding 100 bushels takes about 150 pounds of nitrogen. Rich new soils can hardly supply this amount of nitrogen fast enough. Most soils that have been cropped for years need to have nitrogen added as fertilizer. Nowadays it's easier and more economical to add more and more fertilizer nitrogen for the high yields that bring profits.

Today for example, you can get ARCADIAN® UREA 45, the dry nitrogen fertilizer that provides 900 pounds of actual nitrogen in every ton you handle. Other labor-savers are Nitrogen Solutions that end all lifting and lugging of bags, since pumps and machinery do the work. And you can get complete fertilizers that contain more nitrogen than ever before.

Nitrogen Division, maker of ARCADIAN products, and long-time major supplier of nitrogen to the fertilizer industry, is continuing to improve its facilities for supplying nitrogen in new-low-cost, easy-handling liquid *and* solid forms. Whether you aim for crop records or strict cash pay-off, you'll profit by using plenty of nitrogen.

Arcadian®

PRODUCTS FOR PROFITABLE FARMING

Nitrogen Solutions
American Nitrate of Soda
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12-12-12 Granular Fertilizer
Urea 45 Fertilizer
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NITROGEN DIVISION ALLIED CHEMICAL

The FFA in College

You don't have to be a former FFA member to be a topnotch judge in college but it does help as this group's record shows.

THE FFA should be proud to put its label on the seven young men shown in the center of the above photo. They are a select group of former FFA members who are setting new records in collegiate judging contests. Currently members of the Oklahoma A & M team, they topped twenty other college teams to win the American Royal contests in Kansas City, Missouri.

All seven of the judges are former FFA members and all are State Farmers. To top that, five of them ranked first, second, fourth, fifth, and seventh in individual ratings. And all five were former presidents of their FFA Chapters!

To further prove the merit of FFA training, the team's coach, Dr. Robert Totusek, is a former outstanding Oklahoma FFA member and an American Farmer.

And the pretty girl? No, she isn't a former Future Farmer! She is Aggie Princess Gene Lephew. Others from the left, are team members Ned Purtle, of Hope, Arkansas, an alternate, and Oklahomans Harold Spies, of Mountain View, high individual; Joe Christian, of Marshall, alternate; Eddie Fisher, of Cushing, fifth individual; Glenn Cantrel, of Rush Springs, seventh individual; Duane Zimmerman, of Fairview, second individual; Vic Carey, of Guthrie, fourth individual, and Dr. Totusek, coach.

And the Hereford steer isn't impressed at all!

SHELL CHEMICAL

Another Important Farm Field Report

Even in a hot, dry season—

aldrin-treated rows produced

1/3 more corn than untreated rows

Here are the results that Mr. Franklin Rodgers, Corso, Mo., got when he treated with aldrin: "I'll get about $\frac{1}{4}$ to $\frac{1}{3}$ more shelled corn from the field treated with aldrin. Aldrin-treated rows were more uniform, better filled and there were fewer nubbins."

Results gathered by Shell Chemical's field research show, again and again, that you can get greater yields of top-quality corn by treating your soil with aldrin. Like Mr. Franklin Rodgers, thousands of growers throughout the corn belt are controlling major soil insects with powerful aldrin.

Aldrin wipes out rootworm, wireworm, seed corn maggot, and other soil pests for the entire season. And aldrin is economical. Mere ounces of actual aldrin per acre give an effective, fast kill.

Apply aldrin as spray or granules; or apply it mixed with fertilizer. Whichever method of application you prefer, aldrin gives you top-notch control.

Aldrin is available under well-known brand names from insecticide dealers. Your county agent can supply you with further information on aldrin and its application.

SHELL CHEMICAL CORPORATION
AGRICULTURAL CHEMICALS DIVISION
460 Park Avenue, New York 22, New York

SHELL

Recipe for a Fair

By Ralph J. Woodin

REMEMBER HOW MOTHER used to stir up a fruit cake? She had a wonderful variety of ingredients. None were very appealing in themselves, but when they were all stirred together and baked for what seemed an unreasonably long time, out of the oven came a tempting fruit cake!

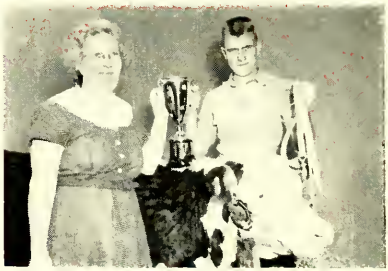
A recipe for a fair is something like the one for a fruit cake. It takes a variety of fine ingredients to produce a good one, and a long waiting period while plans materialize. But the results are very much worth while. Everyone in the community looks forward to attending a good fair.

The Ohio State Junior Fair, one of the oldest in the United States, has found through the years that the following ingredients are useful in coming up with a better fair each year. First, you start with someone who has a love for livestock and pride in showing. Next, stir in heaping portions of interest and enthusiasm on the part of mom, dad, and the rest of the family. After these have been well-mixed, blend thoroughly the inspiration and energy of vo-ag teachers, county agents and club leaders, to hold the mixture together.

In order to lighten the cake, fold in a hearty measure of the generosity of business and industrial leaders who provide trophies, ribbons and other awards. Finally, for frosting, top off the fair with a pretty girl! The Future Farmer Queen Contest at the Ohio State Junior Fair has long been the frosting on the cake as far as those boys are concerned!

Try this recipe for your own fair. Select the ingredients wisely, measure and mix them judiciously, bake in an atmosphere of warm interest, and the results will be a fair to tempt your community's interest.

You start with a boy who loves good livestock.



Then you add to this the interest of mothers.

And don't forget a portion of help from Dad.

Blend in vo-ag teachers and other ag workers.

Then leaven with trophies, ribbons, and awards.

For frosting, nothing is like a pretty girl, a queen or a princess.

OLIVER

"FINEST IN FARM MACHINERY"

The Super 55 diesel. Only Oliver offers diesel in this 2-3 plow utility tractor size

$1 for fuel, $2 for you!

That's just how it works out when you go to an Oliver diesel. Where you used to put, say, three dollars' worth of fuel in the tank, now it takes but one—you *keep* the other $2.00.

How can this be? Well, in the first place, you burn only six gallons of diesel fuel to ten of gasoline. Then, of course, your diesel fuel costs much less. These two factors—fewer gallons, lower price—knock as much as two-thirds off your fuel bills.

Such savings are yours no matter what size Oliver you buy. Because Oliver alone among farm equipment makers offers you a dollar-saving diesel in each of its six wheel tractor sizes. Each of them—from the handy Super 55 up through the mighty Super 99GM—offers features that no other tractor can match.

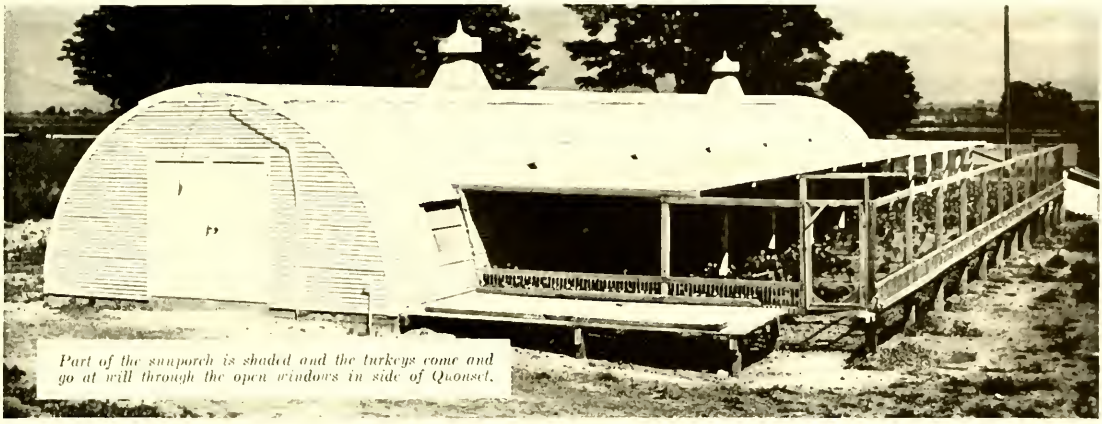
Remember, too, these Olivers are real diesels. Touch the starter button and you are ready for work. No extra starting engine or special starting fuel needed. Yes, there's a difference in diesels, and it's easy to see—just see the Oliver dealer.

The Oliver Corporation
400 West Madison St.
Chicago 6, Illinois

OLIVER

Some turkeys like to eat inside, some outside. To make sure they all get enough, Mr. and Mrs. James Rusk have put troughs on the welded steel sunporch outside brooder house. Flowing water is available to turkeys through lattice at the edge of sunporch floor.

Taking care of 3,500 turkeys in this Quonset brooder house is easy. Automatic watering and feeding hold labor to a minimum. Gas brooders are used and no extra heat is needed in the well-insulated Quonset. Rusk plans to build two more Quonset brooder houses later this year.



Part of the sunporch is shaded and the turkeys come and go at will through the open windows in side of Quonset.

Turkeys from Horse Heaven

At the foot of the Horse Heaven Hills, in the shadow of snow-capped Mount Adams, Mr. and Mrs. James Rusk have combined dry lands and the fertile irrigated soils of the Yakima Valley of Washington to develop a turkey operation based on thorough disease control and increased labor efficiency.

The James Rusk farm at Mabton, Wash., consists of 240 acres—100 acres of dry land used for turkey range, and the balance irrigated. The irrigated lands are planted to mint for mint oil production, alfalfa hay, corn for feed, and wheat. The dry range acreage is separated into 36 pens, 18 of which are used each year.

To fully utilize his labor force, Jim plants crops that will free men for the turkey operations when extra help is needed in this major enterprise. A regular force of two men care for the turkeys in the brooder houses, and two other men care for the birds on the range.

The farm has been planned for all mechanization possible. For example, range feed is bought in bulk, stored in the large granary in bulk, and fed from a bulk feeder truck by auger spouts into the range feeders.

The old-style brooder houses have outdoor feeders, used as soon as the birds are big enough to find the feed on the sunporches. This operation was greatly improved last year when a new Quonset brooder house was built and 3,500 birds at a time were reared in the new Quonset.

With automatic feeders and fountains in the new Quonset, the 3,500 birds are cared for in one-half man-hours daily. The old system of small individual brooder houses for 1,000 birds took one man-hour per 1,000 birds.

This improvement alone saved over $1,500 a year in labor plus the advantages of the longer life of the building and lower repair costs.

Jim Rusk also reports that the even temperature inside the Quonset brooder house has paid big dividends over the "hot and cold" old-style buildings used previously. Cleaning time is reduced and Jim said, "I like the looks of that substantial building after seeing those old shacks for so long."

There's a Quonset® for Every Job on your Farmstead

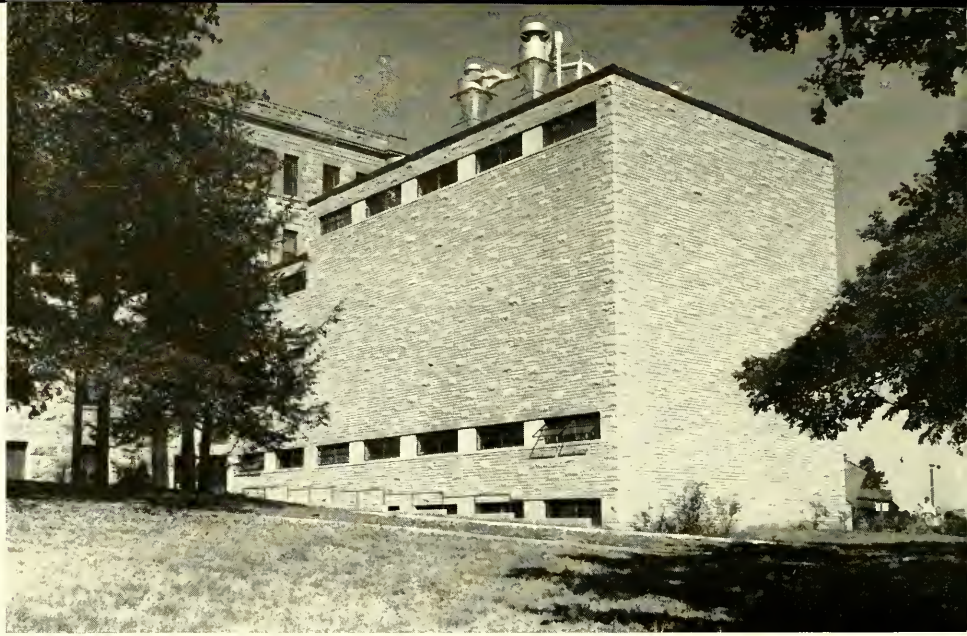
STRAN-STEEL CORPORATION

Ecorse, Detroit 29, Michigan • A unit of

STRAN STEEL FRAMING

NATIONAL STEEL CORPORATION

At the foot of the Horse Heaven Hills, where Indian ponies used to run free in belly-deep grass, is Jim Rusk's farm. Grain storage is located in the rear, machinery storage and shops at left.

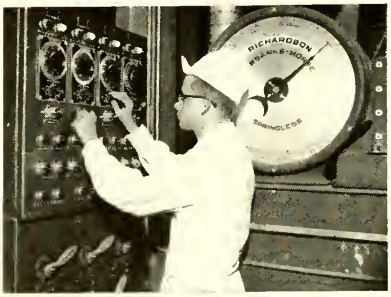


If Farming Must Wait . . .

New career opportunities lie in the field of feed technology, with the help of industry representatives who paved the way.

By Tom Wright

DOORS OF A NEW CAREER are opening in the field of feed technology. Kansas State College's School of Agriculture is offering a full four-year course in this subject, and it is the only one of its kind in the world. The program is being carried out by the school's Department of Flour and Feed Milling industries, supported by the pledges of feed industry representatives who have provided funds for a new building.



A complicated electronic control board regulates formulation of feed batches.

A forward step in this educational project was completed last November, when the above half-million dollar feed technology building and pilot plant were dedicated at Manhatten, Kansas. The building houses 145 pieces of equipment and machinery, donated by suppliers and manufacturers throughout the nation.

The important result is that the building and plant can duplicate almost any commercial operation. It will give students training in all phases of feed manufacturing. There is a shortage of trained personnel in this expanding industry, according to executives of the American Feed Manufacturers' Association.

The college course is expected to supply an annual reservoir of 200 trained men. FFA members, particularly, should be suited for the curriculum because of their broad agricultural background. The four-year course is flexible, enabling students to learn related subjects essential in the study of feed technology, as well as liberal arts courses. There are three courses from which to choose: administration, mechanical operation, or nutrition. Graduates have a Bachelor of Science degree in Feed Technology. The course was actually first offered in the fall of 1951 and currently has about 40 students enrolled.

Future Farmers will be interested to know that there are six scholarships available to undergraduates. Funds totaling $1,600 are awarded at the rate of $200 a semester. It is expected that more scholarships will become available through the feed industry's funds set aside for this purpose.

And so another career is ahead for you—in the expanding field of feed technology.

PURINA VISITS

Bobby Dale Parsons

POULTRYMAN OF TOMORROW

Bobby Dale Parsons is an old hand—at 15—with broilers and turkeys. All his life he has worked with them under the guidance of his father, Dale Parsons, Route 5, Springdale, Arkansas. And he plans to continue working with feathered meat-makers when he starts farming on his own.

He already has the know-how. Just last summer he raised a house of 4,000 Purina-fed Red Vantress broilers and pocketed a substantial profit for future schooling. His birds sold at an average of 3.06 pounds when they were nine weeks and one day old. He had a livability of better than 97%, which reflects his good sanitation, management and feeding practices. He averaged 41.56 pounds of meat per 100 pounds of Purina Broiler Chow.

Our congratulations to Bobby Dale Parsons for his skill in raising fine broilers. We extend our best wishes for his success as a leading poultryman of tomorrow.

Bobby Dale Parsons has been raised on a farm where 48,000 broilers and 10,000 turkeys are grown each year.

A broiler unit (below) on Purina Research Farm

You can depend on Purina Chows in the Checkerboard Bag. Purina Chows are the result of years of feeding experience and research at the 738-acre Purina Research Farm, Gray Summit, Missouri, and at Purina's modern laboratories. Purina scientists work constantly to improve rations to help you produce more meat, milk and eggs at low cost.

Ask for Purina Chows at your Purina Dealer's . . . at the Store with the Checkerboard Sign.

The Future of Farming Depends on Today's Youth

RALSTON PURINA COMPANY

Checkerboard Square • St. Louis 2, Missouri

Meet Your
GAME WARDEN

By Erwin A. Bauer

NOT LONG AGO, a young man arrived in a strange farm community. Fresh from a rigid training course given him by his employers, the State Conservation Department, he was well prepared to be the new county game warden. Just the same, Fred Shore had two strikes against him.

For twenty years new game wardens had been hired every time a new governor was elected. Some became slightly interested in the work. Others had been game law policemen, nothing more. So, handicapped by predecessors he never knew, Fred wasn't exactly received with open arms.

But times have changed. Fred didn't waste time feeling sorry for himself. He heard of an influential landowner in the midst of an unlucky streak. His son had been drafted and a hired man had broken a leg. Having been raised on a farm and knowing the work, Fred hurried to the farmer and volunteered to help. For almost a week he worked without pay. The story rapidly made the rounds, and by the week's end Fred was solidly established. Soon the county's first conservation program was underway.

Times have changed indeed. A new kind of game warden has emerged in most states. He is often a college graduate, sometimes in agriculture. Nowadays, he deals with problems of soil, forestry and land management, for wildlife depends on these. In law enforcement, it means preventing violations more than apprehending violators.

In many American communities the game warden is now an important and respected man with numerous other interests. One Indiana warden solidified his position by substituting without pay for the local veterinarian during a prolonged illness. A vet school graduate himself, he had given up the career for a greater chance to be outdoors. Now he has no trouble selling conservation programs to farmers whose swine he innoculated or show Holsteins he attended in rare spare moments!

Better equipped than ever. A two-way radio gives contact with main office.

I spent a warm summer morning with a Wisconsin game warden, once, who was assigned to his job after a session in Korea. He was somewhat discouraged. People had been unfriendly in some sections and game wardens were considered an unnecessary evil. On his schedule that day was a notice to contact a landowner who had been particularly bitter against the Conservation Department. We arrived to find the farmer in an ugly mood, sweating over a disabled tractor.

Luck was with my friend this time. Repairing this tractor was a simple matter, after his two years as a tank mechanic on frozen hillsides and in mucky Korean rice paddies. We drove away that morning with much of the resentment against his position broken.

One Ohio warden also conducts a farm radio program. Another prepares a weekly newspaper column, while still another is vitally concerned with youth groups such as the FFA. Field man Laurel Van Camp was named "conservation man of the year" by farmers and outdoor fans in his county in Ohio. His untiring efforts to prevent unlawful trespassing by hunters from nearby

cities created the finest relations possible between sportsmen and landowners in his county.

Several factors have helped to develop this modern game warden. Outdoor work naturally appeals to healthy, wholesome young men. The technical requirements nowadays demand an intelligent individual as well. In addition, farmers and sportsmen together have applied pressure to raise the job from a political appointment to Civil Service status. This has helped to interest top-notch lads who would ordinarily try other fields.

Today's game warden is better equipped than ever before. In many states he has a two-way radio which permits him to reach any corner of a county immediately. He's trained to meet people and to get along with them. Often he is a specialist in some related field, such as wildlife photography, soils, ecology, or firearms safety. Nearly all have a devotion to their own communities that development commissions and service clubs might well utilize.

The new game warden is bringing about a change. Several years ago, a Michigan man placed a mounted deer on a brushy knoll near a road. The first car of hunters to pass ground to a screeching halt; occupants rolled from the car and opened fire. When several volleys didn't drop the deer, they caught on and departed in a blue haze of profanity. Before the deer was completely shredded, 15 carloads followed suit. Only three passed up the shots to check first at the farm house nearby and obtain permission to hunt, which was the law in that state as in most.

This past season the ruse was tried again. But not one shot was fired. Fact is, the steady stream of sportsmen to the farmer's door was such a headache that the gag was discontinued, and fast.

There was a reason for the change. For five years that county had been exposed to an especially aggressive, young game warden. He'd pounded the back roads preaching conservation and sportsmanship at every turn. Violators were arrested and vigorously prosecuted.

Admittedly, progress is slow in some regions. Some conservation jobs are still subject to the dictates of political parties, while elsewhere low salaries do not attract inspired young men who see a future in conservation. Still, the smaller number of arrests each year shows a change is taking place. It's evident in the better behavior of sportsmen and in the increasing civic responsibility taken on by the young wardens.

Yes, your new game warden is a pretty swell guy. Better get acquainted with him!

NEWS FROM NAUGATUCK

TOMATO YIELD UP OVER 300%

with

PHYGON®-XL

One Phygon-user* reports a tomato yield increase of from 107 to 384 bushels per acre over a 3-year period. That's just a sample of what you can expect when you include this remarkably inexpensive fungicide in a spray schedule. Result: many more market dollars with higher yields of higher grade tomatoes.

Phygon-XL gives outstanding control of late blight and gray mold (botrytis). It is simple to apply, mixes effectively with the most commonly used fungicides and insecticides and does not affect odor or flavor of fruit.

*Florida

Order Phygon-XL from your local supplier today. Write, wire or phone us if unable to locate immediate source of supply.

SEE Naugatuck Chemical Division, United States Rubber Company, at work on NBC's "Color Spread" TV spectacular, Sunday, March 25, 7:30 P.M. EST.

United States Rubber

Naugatuck Chemical Division

Naugatuck, Connecticut

producers of seed protectants, fungicides, miticides, insecticides, growth retardants, herbicides: Spergon, Phygon, Aramite, Synklor, MH, Alanap, Duraset.

Success began with VO AG WORK

Left to right, Elmer Carlson, Future Farmer Don Merk, and Audubon Advisor Jim Hamilton discuss steers on feed.

By Jim Hamilton

SOME FUTURE FARMERS feed their project corn to livestock—but Elmer G. Carlson turned his into a million dollar business. And he credits the key of his success in that business to the start he got in vocational agriculture and the Future Farmers of America.

Carlson began his vocational agriculture studies at Audubon High School in 1926. His first project was sheep and he did well with them. He became an expert sheep shearer and later sheared for many neighbors. However, it was corn that interested the young farmer. His first project of five acres yielded 290 bushels.

With the aid of his vo-ag instructor, Dr. R. H. Palmer, Carlson started an open pollinated seed corn business. Later he became interested in cross-pollinating and inbreeding and made numerous studies. He continued his work with corn and today operates the Carlson Hybrid Corn Company in six states and does over a million dollars worth of business a year.

When asked about his original investment, Carlson said he started on borrowed money and was able to expand through satisfied customers and a trusting banker. He said his father's credit reputation enabled him to borrow money for expansion in the 30's.

A charter member of the Audubon FFA Chapter, Carlson has continued his interest in Future Farmers by providing a contest for FFA boys. He promotes improved corn production by giving awards each year for outstanding yields. He sponsors many field days and recreational days for FFA chapters and other youth on his farm near Exira, Iowa. He built and stocked a 17-acre lake "just for the kids."

Carlson won the National Corn Husking Championship in 1935. He set a new world record which stood until 1941, the last year of hand husking contests. He was sent to Europe in 1952 by the Mutual Security Agency to teach corn husking methods to the Italians, French, and Hollanders. They now have adopted the hook method.

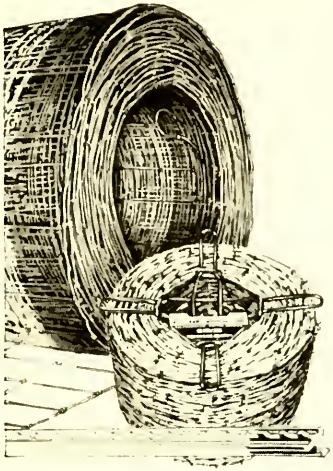
Using progressive up-to-date farming methods, Carlson was the first multiple farm operator in Iowa to get all of his farms in SCS plan. He introduced anhydrous ammonia to Iowa, and now owns interest in 25 plants in the Western part of the state. He owns two weekly newspapers in Audubon and 2,300 acres of Audubon County farms.

Interested in civic affairs, Carlson is past president of the Audubon Chamber of Commerce and the Lions Club. He was a candidate for Congress from his district in 1954.

Looking back, Carlson says the business training of the FFA has helped him considerably in his business.

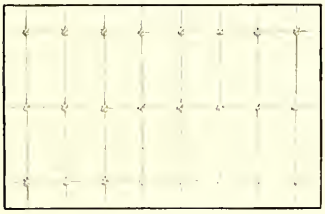
Carlson is still interested in FFA and provides contest for high corn yields.

RED BRAND®



the mark of top quality

Only one fence is branded so you know at a glance what it is. That's RED Brand. We're proud of the quality. Want you to be sure you're getting the best. Just look for the red top wire, the Galvannealed* red barbs and the bright red top on Red Top* steel posts.



For Farmsteads

Feed lots and farmsteads require more strength than other farm fences. Keystone Non-Climbable is the answer. The 2" x 4" mesh holds anything. With 10-foot post spacing and 11-gauge wire, you can have a bull-tight fence. Send coupon for details.

KEYSTONE STEEL & WIRE COMPANY

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RED BRAND Fence • RED TOP Steel Posts • Keyline Poultry Netting • Non-Climbable Fence • Ornamental Fence • Nails • Gates • Bale Ties

RED BRAND

PRACTICAL LAND USE RESEARCH REPORTS

Steers fed in wire enclosed lots made 28% faster gains with 20% less feed than steers in wood enclosed feed lots*

For hot weather feeding, steers do far better in wire fenced feed lots, research workers at the University of California have discovered.

These studies were carried out to determine how to keep cattle more comfortable during hot weather.

The two feed lots, or corrals, as they are called in California, were identical except the shades and the fences.

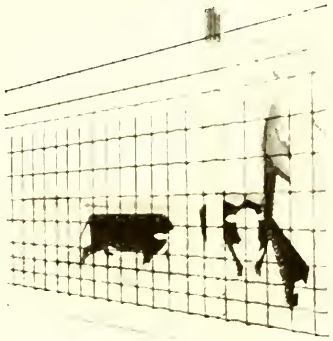
Each had a dirt floor. They were surrounded by an alfalfa field. In the wire enclosed lot, a hay-covered shade was used. In the wood enclosed lot, an aluminum shade was used. Ninety square feet of shade per animal was provided.

The test continued for 84 days. The same rations were fed. Water was supplied in circular concrete drinking water tanks. Seven Hereford steers with an average initial weight of 814 lbs. were assigned to each pen.

A condensed summary of results follows:

	FEED LOT CONSTRUCTION	
	WIRE	WOOD
Average temperature in pen	85.7° F	89.5° F
Average wind velocity in pen	2.43 mph	1.11 mph
Water consumption per 100#	1.17 gal.	1.42 gal.
Average gain per day	1.94 lb.	1.51 lb.

Steers in the wire feed lot required 20% less feed per 100 lb. gain than in the wood enclosed lot.



The author's conclusion: "A substantially cooler environment for cattle can be provided by proper feed lot construction, good shade, cool water and a reduction of radiant heat" (from wooden fence).

For more complete details about this test, and suggestions on how to build fences for feed lots and farmsteads, write Keystone Steel & Wire Company, Peoria 7, Illinois.

* See "Environment Comparisons and Cattle Gains in Wood and Wire Corrals" by N. R. Ittner, T. E. Bond and C. F. Kelly, University of California in August, 1955 issue of Journal of Animal Science.

Keystone Steel & Wire Company
Dept. NFF-256
Peoria 7, Illinois

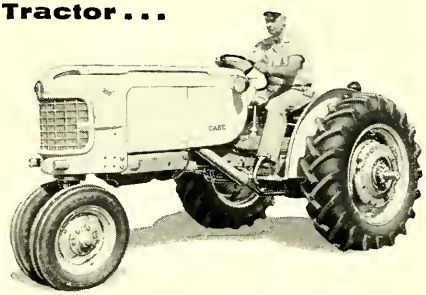
Please send me details on feed lot tests and suggestions on how to build fences.

Name_____

Town_____ State_____

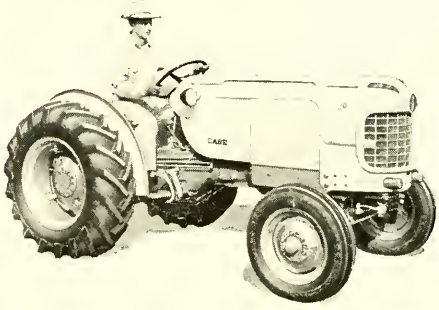
Daring New 3-Plow Tractor . . .

CASE "300"



Alive with Spectacular Advantages

12 speeds
evenly spaced, overlapping gear speeds forward, all the way from 1.6 to 20 MPH..; plus three reverse speeds.



- ★ **Powr-Torq Engines...gas, LPG, distillate, diesel**
- ★ **Tripl-Range Transmission...12 speeds forward**
- ★ **Safety-Lock Hydraulic System...duo-control**
- ★ **Cam-and-Lever Steering...new short turning**
- ★ **3-Point Eagle Hitch...constant PTO**
- ★ **Tell-Easy Instrument Panel...eight indicators**
- ★ **Powr-Shift Rear Wheels...plus sliding hubs**

Bursting with features that put thrilling new meaning into performance and horsepower . . . the Case "300" brings to life your dream of the ideal in modern 3-plow tractors. For the first time in any tractor the "300" offers you an amazingly simple, easy-shifting Tripl-Range transmission that makes full use of engine power . . . plus a host of other new advantages . . . for job versatility never before achieved. See your Case dealer now about the new Case "300" . . . you'll agree it sets a new trend in tractors. Ask about the sensible Case Income Payment Plan. For colorful "300" catalog, write J. I. Case Co., Dept. B-916, Racine, Wis.

The Sander Family

ANOTHER DISTINGUISHED FFA family! You'll have to go a long way to find a better record than that of the Mike Sander family of Chappell, Nebraska. All eight of the sons have been active in the FFA at the high school from which they graduated. All have held a Chapter office, five having been president.

But that's only the beginning. Five of the young men received the State Farmer Degree, Jack being the first student in Chappell High to receive it. Dick was awarded the American Farmer Degree, the only Future Farmer from the Chappell Chapter to obtain it so far. Dick is also a former State FFA President, while brother Bill is a former State Treasurer. Dick, Dan, and Roy were National FFA Chorus members two years. The father, Mike Sander, has been awarded both the Chapter and State Honorary Degree in FFA. In addition, five of the boys have received the DeKalb Award as the most outstanding student of the year! Jack, Larry, Dick, and Roy have served their country in the armed forces.

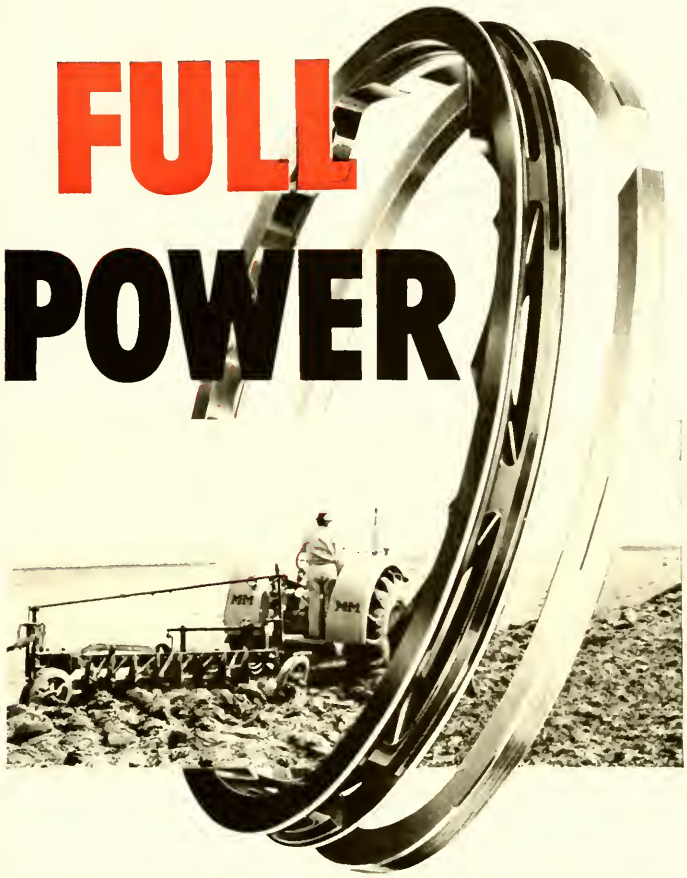
The Sander sons have also been active in the affairs of church and community. They love to sing, and once organized a quartet, first in the FFA and later as a family quartet. All but one are members of a choir. Seven are members of the same church and have, at one time or another, been president of the Young People's League.

Six of the boys are presently engaged in diversified farming and one of them, Jack, is a graduate of Nebraska Agricultural College. Clayton is studying for the ministry and one of the others works for the Great Western Sugar Beet Company. The Sander boys attained their outstanding record in the FFA under two Chapter advisors, Harlan Knoche and the present advisor, Duane Foote.

In front row, left to right, are Larry, Jack, Joe, and Dick. In back row are brothers Roy, Clayton, Bill and Dan.

Get the benefit of

FULL POWER



Install **PERFECT CIRCLE** 2-in-1 Chrome piston rings!

You can expect *more* productive hours per engine—*less* "down time" for overhauls—when you install Perfect Circle 2-in-1 Chrome piston rings in your farm engines!

Good reasons why: Top performance under continuous heavy load is assured because in Perfect Circle's 2-in-1 Chrome set, both top rings and oil rings are plated with thick, wear-resisting solid chrome. This more than doubles the life of cylinders, pistons and rings.

Settle for nothing less than Perfect Circle 2-in-1 Chrome piston rings for your car, truck or tractor. Be sure of *full-powered* farm power—with positive oil control. Perfect Circle Corporation, Hagerstown, Indiana; The Perfect Circle Co., Ltd., Toronto, Ontario.

PERFECT CIRCLE

2-in-1 Chrome piston rings

THE STANDARD OF COMPARISON

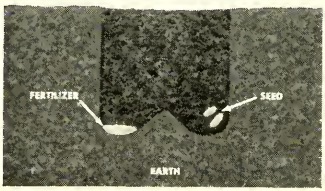
Separate Banding of Seed and Fertilizer

Gives better stands and higher yields

Crop specialists agree that seed germinates and grows better when seed and fertilizer are placed in separate bands. This almost entirely eliminates the danger of "burning" tender roots and plants, helping to assure full stands and maximum yields with less seed.

With the introduction of the ALL-CROP drill, built by Allis-Chalmers, separate band placement of seed and fertilizer became practical for the first time. Twin-boot design makes the difference. Fertilizer is deposited through the front boot, while the seed is placed about one inch to the side of the fertilizer from the rear boot . . . out of danger, but close enough so that young seedlings can take full advantage of this extra plant food.

Many features of the ALL-CROP drill are entirely new and different. Fully-mounted design gives it surprising capacity—up to 35 acres per day for the WD-45 model, and 20 to 30 acres per day for the CA model. The entire unit is hydraulically



lifted and lowered, with most of the weight carried on the tractor's big low-pressure tires, which do not sink into loose soil, assuring utmost accuracy of seed and fertilizer placement at the desired depth.

Grain, grass or legume seeds and fertilizer can be drilled at the same time, or separately, as desired. The non-clogging MICRO-FEED meters kernels individually, instead of in bunches. Force-Flo agitators in the fertilizer hopper break up lumpy fertilizer.

These and other features have enabled many owners to report better stands and higher yields with less seed.

FARM EQUIPMENT DIVISION, MILWAUKEE 1, WIS.

ALLIS-CHALMERS

ALL-CROP is an Allis-Chalmers trademark.

Compliments, FFA!

THESE FAMOUS Flame Tokay Grapes were produced in the Lodi District of California—home of 98 per cent of all the fresh Tokays produced in the United States," the passenger read. He was enjoying a refreshing treat on his air trip from Stockton to New York. "They are presented for your enjoyment through the courtesy of United Air Lines with the compliments of Lodi Future Farmers of America," he saw on the card inside the package.

The idea of having individual packages of Tokays served aboard far-flying airliners was originally conceived by members of the Tokay Marketing Agreement, but it took the FFA to carry it out! The grapes were picked and packaged by the Lodi Union High School FFA Chapter, who grew them on their four-acre vineyard in Ham Lane.

Junior horticulture classes, under the direction of vo-ag teacher Art Mellor, packaged 500 one-quarter pound bags of grapes. Enclosed in each was the courtesy card, with a brief history of the Tokays. "The plan was very ably and nicely carried out," according to C. N. McClanahan, TMA secretary-manager. "The Future Farmers and Arthur Mellor are to be thanked for doing such a swell job."

Mellor passed on the credit to his Future Farmers. He said they organized themselves in small groups and "did a marvelous job of selecting and packaging the grapes." McClanahan expresses his appreciation also to George Stuart, Stockton (California) manager of United Air Lines, for helping make the project possible.

The cellophane bags and printed cards were provided by two local business men who wished to remain anonymous. Nine boxes of grapes went aboard the transcontinental airline in this harvest project, bringing renewed international recognition to the Future Farmers of America.

Cowboy Hall of Fame

A NATIONAL Cowboy Hall of Fame will someday be erected on a 37-acre site near Oklahoma City. The $150,000 site was dedicated last fall in a pageant combining traditions of past and present. The purpose of the Hall will be to honor those men of history who made the West, and also those who carry on its traditions.

National trustees of each of 17 states were on hand to watch the flags of their states pass in review. A cavalcade of over 1,000 horses, the largest number to be assembled at a public gathering in almost a hundred years, added to the colorful program. The pretty Norse Stars in the picture below, from Northeast Oklahoma A & M, joined in the dedication ceremonies. Will Rogers, Jr., officiated as master of ceremonies, while television personalities entertained.

Chairman of the national board of trustees and originator of the idea is C. A. Reynolds, who said, "in a real sense, this Cowboy Hall of Fame and its projected museum will be a national shrine." The one-million-dollar fund raising for this memorial is in the hands of former Oklahoma governor Roy J. Turner, who received his Honorary American Farmer Degree at the FFA Convention in 1948. Turner hopes that youths everywhere will visit the building after its completion, and that they will become members of this non-profit organization.

Any boy or girl in America under 18 may become a member by sending $1 to the National Cowboy Hall of Fame, 200 Skirvin Tower, Oklahoma City, Oklahoma. Members will receive buttons and cards that will entitle them to free admission to the museum when it is completed.

The pretty Norse Stars entertain at dedication ceremonies of the Hall of Fame site. The event attracted over 1,000 horsemen from 41 riding clubs.

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The Allis-Chalmers Traction Booster system of weight transference eliminates the need for costly, useless weight in the tractor. Implement weight becomes working weight applied and removed as needed. The action is as automatic as that of an engine's governor.

Now, Allis-Chalmers introduces a new remote ram principle of power application which operates in conjunction with the Traction Booster system, and increases the WD-45 Tractor's work capacity by 25 to 50 percent.

So that owners may capitalize on this added work capacity to the fullest extent, Allis-Chalmers has also introduced a line of new big-capacity, wheel-transported Traction Booster implements of outstanding design and performance.

You will instantly recognize the significance and value of this development when you see the 4,600-pound WD-45 handle its new 4-bottom plow . . . or watch it disc up to 60 acres a day with the new 12½-foot double-action disc harrow.

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ALLIS-CHALMERS

CORN... 300 Bushels... What Next?

by **Wilson W. Carnes**

GREAT-GRANDDAD would look on in utter dismay if he could see us making a crop of corn these days. He would be equally startled at some of the yields being harvested. The growing of corn has changed just that much! Yields which were once thought impossible to make are bulging the sides of cribs nowadays.

This might bring one to ask what has brought it about and where are we going in corn production? Probably no one knows the answer to the latter. However, now that the 300 bushel-per-acre barrier has been broken, we are led to believe that there is practically no limit.

As for the changes of recent years, many of them can be traced to the introduction of hybrid corn. Fact is, some folks say that if hybrid corn had never been developed there would be no surplus of corn on the market today.

You might say hybrid corn is a lot like that calf you may be feeding for the fat calf show. He's got good breeding—that is, the capacity to develop into a winner—but unless he gets the right kind of feed and other treatment, he isn't going to develop to the extent of his ability. Hybrid corn is something like that. It has increased the per-acre capacity of corn, but we must use the correct amount of fertilizer, good cultural practices, and other man-controlled influences to get maximum yield.

What Is Hybrid Corn?

Possibly the simplest way to give you a general idea of what hybrid corn is, is to compare it to the mule. A corn hybrid, in fact, has many things in common with the mule! A mule is the first generation hybrid between the mare and the ass, and takes the better qualities of both parents. It does not reproduce, but must be produced anew each generation. A corn hybrid is the first generation hybrid between two strains of corn. Its value is for seed in the production of a crop of commercial corn. This corn will grow, but cannot be used for seed the following year without a loss in yield. A corn hybrid, like the mules, must be produced anew each generation. During that generation good hybrids produce larger yields of higher-quality corn than do the best open pollenated varieties, some say as much as 20 to 30 percent more. And finally, like mules, not all hybrids are good ones so be sure to get the one best adapted to your area.

Increased Yields

A good example of the big changes taking place in corn production in recent years is found in Mississippi. Back in 1946 the average yield for the state was 16.5 bushels per acre. That year the vocational agriculture workers decided to do something about it and organized what they called a "100 Bushel Corn Production Program." Since then, yields which were once thought impossible in the state have been recorded with amazing regularity. The program's objective is to teach farmers and FFA members that higher yields of corn could be grown on an economical basis in the Magnolia State.

The program got off to a good start. Two years later 512 students in vo-ag classes grew 100 bushels of corn per acre. The next year the number of students reaching the goal was increased to 1,137. During the program's peak year, 2,664 students achieved the "unbelievable."

Also significant during the peak year was the 1,348 students who produced 80 bushels or more per acre on three or more acres; and the 1,762 who produced 60 bushels or better on the total acreage planted to corn—in a state whose average yield was 16.5 bushels just a few years before!

According to A. P. Fatherree, state supervisor of agricultural education, teachers used the five-step method in teaching students how to produce top yields with particular attention given to three steps: (1) plant adapted hybrids; (2) adequate fertilization; (3) proper cultivation. The fertilizer requirements to produce 100 bushels of corn along with shallow cultivation and early lay-by date were emphasized. Fatherree says they have found that it takes about 140 pounds of nitrogen, 50 pounds of phosphate, and 100 pounds of potash placed at least eight inches under the seed to make 100 bushels of corn per acre.

Top yield in the program was made by Billy McCullough of Houlka school in Chickasaw County, who produced 232.7 bushels per acre. He used an adapted hybrid and fertilized with 850 pounds of 5-10-5 fertilizer per acre and 244 pounds of anhydrous ammonia (82 percent) placed 12 inches deep. When the corn was knee high, he side dressed with 400 pounds of ammonium nitrate (32 percent).

When we look at the corn picture today, one thing stands out clearly. For top yields, and the most profit, modern methods must be used—not those of yesterday. And since hybrids have increased the per-acre capacity to produce, a number of new methods can be used most effectively.

Chemistry and Research

Chemistry and information compiled by research both have a big place in today's efficient corn production. Beginning with the first step, the soil test, a farmer can find out what plant foods are deficient in his soils. Then with a look at the plant food requirements of corn, he will know just what fertilizers and in what amounts to use for a high yield.

Chemicals are also used for treatment of seed corn against such diseases as fungus rot, seed decay, wireworm, seedling blight, and seed-corn maggot injury. Some have reported that yields were increased 10 percent by such treatment. Most corn is being treated with lindane and arsan, to give double protection. Lindane is an insecticide and arsan is an organic fungicide. Other chemicals such as 2,4-D and TCA are used effectively to control weeds in corn.

Fertilizers, Old and New

A farmer has several fertilizers to choose from but one thing is fairly certain. If you want greater yields of corn, use more nitrogen. Most kinds of fertilizer available are familiar to you but there are a few new ones. However, the one for you to use depends upon materials available in your area, convenience of application, and the price. Here are the most popular ones. Anhydrous ammonia is a gas and contains 82 percent nitrogen, the most concentrated of all nitrogen fertilizers. It is spread as a liquid under pressure, and for this reason needs special equipment. Its application has been mostly left up to the custom operators because of the cost of equipment. This has been an advantage in many instances, since the cost isn't too high and it relieves the labor for other seasonal chores.

Solution 32, or Uran, is a liquid form of nitrogen which is applied with ordinary farm spray equipment. Since it will burn plant tissues, it must be applied with care. It is one of the newer

forms of nitrogen on the market today.

The dry forms are the most familiar, and for that reason they are still the forms most used. The best-known and the percentage of nitrogen in each one are sodium nitrate with 16 percent; calcium cyanamide, 20 percent; ammonium sulfate, 21 percent; ammonium chloride, 26 percent; ammonium nitrate, 33 percent, and urea, one of the newest of the dry forms, with 46 percent.

In considering your nitrogen needs, remember that the more concentrated forms mean less materials to handle, yet you get the same number of pounds of nitrogen. Complete fertilizers in liquid form, also new, are making their appearance in some areas. Most of these give about the same results as the dry forms. As some farmers have put it, "only the bags and the backaches are removed."

Irrigation

It takes about 5,000,000 pounds of water to grow 100 bushels of corn on an acre. For a long time this was in the hands of nature, but now, with irrigation, it is becoming more and more a man-controlled matter.

Too often water is the governing factor in the size of corn yields. For example, you can use the best hybrid for your area, use just the right amount of fertilizer, and cultivate to perfection but if water isn't available, your yield will be disappointing.

Take the case of a Future Farmer in Alabama. During one of the drouth years, he was just getting his irrigation system going but did manage to get some water on a few acres. He made 50 bushels per acre on those irrigated, five on those with no water! As he put it, "that wasn't such a high yield but irrigation meant the difference between 50 bushels and almost no corn at all."

Another case out in the midwest concerned a farmer who gave his corn three irrigations at the right time. It produced close to 150 bushels per acre, as compared with 70 on the acres that received no irrigation.

Mechanization

What about farm machinery? Here the cost is relatively fixed. The machinery cost of farming 100 bushels is about the same, regardless of whether the yield is 20 bushels or 80. But, as the yield is increased, the cash return from your machinery becomes greater. It makes it possible to use more expensive equipment such as larger tractors, plows, cultivators, corn pickers, and the like.

Just where we are going in corn production is anybody's guess. But an acre of land is just as big as the fellow who manages it. Now he can team with hybrid varieties and science, and that acre becomes pretty big!

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Get information sheet and soil cartons

Divide farm into fields for sampling

Take composite sample from each area

Don't sample unusual areas

Use proper sampling tools

Sample to plow depth

Remove soil ribbon from center of slice

Mix well in clean pail

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Number samples—keep record

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Coal Cracker

By Thomas L. Cavanaugh

Joe Tezak, lanky forward of Norton University, dribbled the ball past center court, cut sharply behind the Case guard who was swarming all over him with upraised arms, and worked the ball in under the basket. He half twisted his long body (six-foot three) as he jumped, and pushed the ball onto the backboard. The timing and the spin were perfect. The ball swished through the cords.

His lay up shot had brought Norton within four points of Case at 52-56 and there was now less than two minutes to go. Norton was playing a man to man defense, and Joe stuck to his man like glue. The ball was worked in toward the Norton basket. Joe reached up huge hands and spoiled a set shot for his opponent. The ball went out of bounds.

"Get awake there," yelled Harry Davis, taking the ball on the toss in. "Come on, Coal Cracker."

Joe flushed under his tan. There it was again—that nickname he hated. Sometimes he felt that Davis taunted him with "Coal Cracker" just to point out the difference between them. Davis was the son of a rich industrialist, whose factories depended mainly on soft coal. The coal was dug from the earth by men like Joe's dad.

So what if he was the son of a coal miner? Was it a crime? Apparently it was here at the select university of Norton. Joe had come to this conclusion some time ago. Ever since Davis had found out about his background and had made remarks about it.

Joe bounded away from the man who was covering him and took the fast pass from Davis. He sped down the court in ground-eating strides until he was within a few feet of the basket, then he stopped short. The maneuver threw his man off guard for a split second. It was enough for Joe. With a beautiful one-hand toss, he arched the ball through the basket to bring Norton within two points of tying the game.

The crowd went crazy! Case hastily called for time out, and the cheer leaders leaped in front of the rooting sections. A thunderous din filled the gym.

"Nice shot, Coal Cracker," Davis said casually, as they sat on the floor awaiting the whistle.

"Thanks," answered Joe dryly, wiping the sweat from his face with a towel. During these time out sessions and in the locker room talks he was ill at ease among his teammates.

Somehow he had the feeling that he didn't belong in this group and was there only because of his exceptional skill at tossing an inflated ball through a small hoop. Davis, the team captain, was the one everyone looked to for guidance and for giving out with the smart answers, at which he was an expert.

Davis fitted in well with this group, which subconsciously seemed to be measured in terms of background and wealth rather than ability. "Let's catch 'em, gang," Davis coaxed. "How about it?" His eyes swept around the group and settled on Joe.

Sure, how about it? Joe grinned mirthlessly to himself. Already he had scored 27 of the team's points to Davis's four, but the blonde captain was casualty laying it on the line for them to salvage the game. If Davis would devote more time to playing the game and less to talking a good game, perhaps the score would read differently. Joe shrugged. Maybe that was the way things were supposed to work out.

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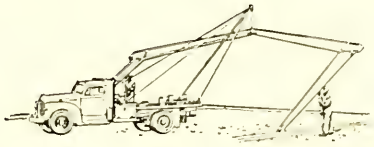

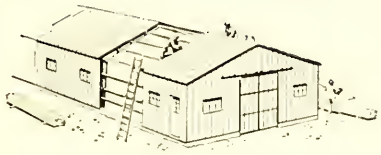

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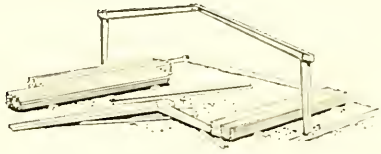

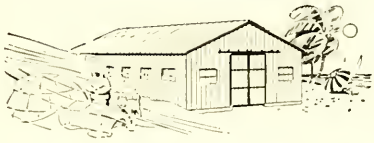

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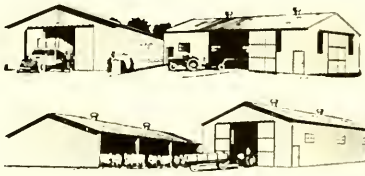

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Case, trying desperately to protect their slim margin, froze the ball in the last 30 seconds. The forwards romped back and forth, working the ball in and out toward the basket, but being very careful not to lose it. Joe lunged and intercepted a short pass. He tapped the ball toward Davis, who snapped it up and started down the court. The Case team was in hot pursuit as the crowd went wild.

Davis was in the clear and pushed through a lay up shot that tied the score. The clock ticked the big hand ever closer to the little one. In seconds the board would light up that the game was over.

In a last desperate gamble, the Case guard flipped the ball far upcourt to where a man was in the clear—almost. Joe lunged in front of the receiver and backhanded the ball. It rolled loose for a moment, then he scooped it up and dashed down the floor. A hush fell over the gym as he stopped suddenly, evaded an onrushing guard, and set himself for a two-handed shot from the outside.

At the last possible second, he heard a shout, "Pass it, Coal Cracker!" Out of the corner of his eye he saw Davis cut in under the basket. On the way ceilingward with his set shot, he reversed in midair and snapped the ball into the waiting hands of Davis, who sunk the peep shot for the tie-breaking score just as the gun sounded, ending the game.

A thunderous roar greeted Davis as he stood under the basket, smilingly acknowledging the cheers of the Norton rooters who swarmed around him, pounding him on the back. Davis accepted the praise with ease, as if it were his due.

Joe stood alone for a moment in center court as the crowd swirled past him to the hero, Harry Davis. Then, his face wearing a cynical smile, he crept down the steps to the dressing room. He flopped on a bench in the locker room and stretched his long legs. It had been a long, grinding game and he had played almost the entire contest. The coach had spelled him for a few minutes in the third quarter.

Joe closed his eyes dreamily. Sylvia had been in the stands. Sylvia Ford, with the gleaming brown hair, provocative lips, and soft eyes. Sylvia, who knew and didn't care that he was a coal cracker's son.

His pleasant thoughts were interrupted by a rasping voice. He opened his tired eyes. Coach Harmon was glaring at him. "Why did you do it?" he asked hoarsely, running nervous fingers through his sparse gray hair.

"Do what?" asked Joe, wide awake now.

"Almost tossed the game away," snapped Harmon. "You had that set shot all but made, yet you took a chance and flipped the ball to Davis. "Why?"

"He was in a better position to shoot," Joe explained, flushing under the accusing glare of the coach.

"And where do you think you were? At the other end of the court?" snarled Harmon. He shook his head. "One of these days . . ." he moaned.

Joe smiled. "We won, didn't we?"

"Sure, we won," agreed Harmon, mollified. Then he pointed his finger at

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"FASTER, MOM! FASTER!"

Joe. "One of these days, young man," he warned, "you're going to carry this thing too far. Teamwork is wonderful and not wanting to be a basket hawk is great, but there are times to use common sense. After this, when you're in a position to score, toss the ball in yourself."

"I was going to," began Joe, "but Davis called . . ." He broke off in confusion.

Harmon nodded. "Yeah, I heard him. Glory grabber. All he thinks of. . . ." It was the coach's turn to break off. He quickly switched. "Never mind what happened today. Luckily we won, but mark what I'm telling you. In the future give a little more consideration to Joe Tezak and the team." He smiled as he placed an arm about Joe's broad shoulders. "You played a sensational game, Joe," he said gratefully. "Thanks."

Joe blushed. "I . . . I did my best."

"Keep on doing *your* best," Harmon said quietly. "We're sure going to need it in our big game with Stanton next week."

In a few minutes the rest of the team trooped in, yelling and slapping each other on the back as they crowed over their victory. An uncomfortable silence fell over the group at sight of Joe, bent over unlacing his shoes.

Joe was used to this reaction. He gathered up his gear and, with a curt nod, went into the shower room. As he banged the door behind him, he heard the babble of voices break loose again.

A hurt feeling was mixed in with the anger. He snapped on the needle-fine shower and stepped under it. Why did they always clam up when he was around? On the court he fitted into the fast-breaking, high-scoring team like a wheel in a clock. Off the court, he was left strictly alone.

Was it because his family was not listed in the social register? Or could there be another reason? Jealousy, perhaps? Joe grinned to himself. At times the coal cracker's son really showed up the playboys, like Davis.

* * *

Joe, squirming uncomfortably in his snug tuxedo, faced Sylvia in the living room of her home. The Fords lived in the better section of the college town. Professor Ford had been at Norton for many years. Sylvia was his only child.

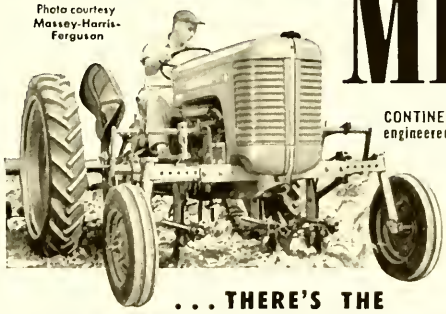
Joe fought to control his voice as he pleaded, "Give me one good reason why you aren't going to the dance with me."

"Why should I?" Sylvia said, her brown eyes flashing. "I simply said that I'm not going with you. I'm going with Harry Davis."

"But we've always gone to these

BEHIND THE NEW MH50

Photo courtesy Massey-Harris-Ferguson



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dances together," Joe continued desperately, "I sort of took it for granted. . . ."

"That's just the point," she interrupted, her voice low and throaty, "you take too much for granted. You crawl into your own moody little shell and expect everyone to cater to your whims. If you'd stop feeling sorry for yourself and try harder to be one of the gang, you'd be a lot happier. And you'd make others happier, too," she added, a trifle breathlessly.

Joe stared at her. "Feeling sorry for myself?" he croaked. "What do you mean?"

"You know perfectly well what I mean, Joe Tezak," she stormed. "Take last night's game, for instance. Who won the game for us? You did. But who got the credit? Harry Davis. Who slunk off the floor before the fans could get to him? Who played the heroic martyr? You did."

"Can't you see what I'm getting at, Joe?" she pleaded. "There's more to the game than just tossing the ball through the basket. There is the excitement of playing a good game and winning. There is the idea of being a part of a team and part of a school. That's where you fall down, Joe. When the final whistle blows, you fade out. Your pride keeps you from joining in all the way."

"Oh, does it?" Joe snapped.

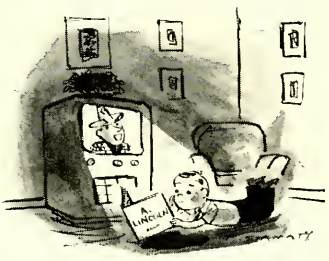
"Yes," she answered shortly. Then she smiled brightly. "A girl likes to feel that her . . er . . date belongs. That he'll be friendly to her friends," she explained, stepping close to him.

"Okay." He fought to keep his voice calm. "Go to the dance with Davis—share in his limelight. I hope it makes you happy." He spun on his heel and strode toward the door. "Goodbye!" he flung over his shoulder.

"Joe, wait. . . ."

But Joe was already halfway down the steps. With head held high, he walked slowly toward the fraternity house where the orchestra was already tuning up for the dance.

Joe's resentment mounted with each passing minute as he sat in a big leather chair watching the gay couples arrive. He was pointedly ignored, except for curt nods from a few acquaintances. He didn't mind this—he was used to it. He had long ago made up his mind that he'd be darned if he'd try to get in with these rich kids.



At that minute he regretted for the thousandth time ever having accepted an athletic scholarship at Norton. He'd had a hunch he wouldn't fit in. Brother, had that hunch been right!

Joe sighed. If it wasn't for Dad, he'd of chucked it long ago. He couldn't let him down. Dad was an independent, democratic sort of guy. He'd never be able to explain to him that he couldn't get along with his classmates.

Joe sat bolt upright when he saw Sylvia come in with Harry Davis. She saw him at the same time and deliberately turned and looked up into her escort's eyes, who bent low and whispered something to her. Sylvia's gay laugh cut through Joe like a knife.

Harry Davis strode over, his face alight with triumph. "Hi, Coal Cracker!" he called loudly. He nodded to the girl at his side. "See the prize I won for tossing the winning basket last night?"

"You get the best of everything else," Joe said shortly, his face hot. "You

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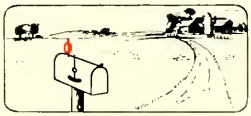

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might as well win *that*, too."

Davis frowned. "What do you mean?"

"Ask her!" snarled Joe, getting to his feet and sticking out his chin. "She belongs."

"Joe! Please!" cried the embarrassed Sylvia.

"I don't like your insinuations, Joe Tezak!" Davis snapped.

"And I don't like plenty of things about you," retorted Joe, doubling up his fists. "So what are we going to do about it?"

A small crowd had formed around them. An older man detached himself from the group and walked between them. "This is a social affair," he said quietly. "We expect our guests to act like gentlemen." He stared at Joe levelly. "I'm sorry, but I'll have to ask you to leave."

"Me?" gasped Joe. "How about him?" pointing at Davis.

The man shook his head. "You started the argument."

"Oh, I get it," sneered Joe. "He's Harry Davis. I'm Joe Tezak. Sorry I mentioned it." He laughed mirthlessly. "I can take a hint." Joe strode quickly out of the fraternity house.

A few minutes later he was in his room at the boarding house a few blocks off campus. He took a suitcase from the closet, threw it on the bed, and started to empty the bureau drawers. Angrily he piled socks, shirts, and his extra suit into the bag. With each article he tossed his anger mounted.

Then her words came back to him. *A heroic martyr.* That's what she had called him. Joe smacked one fist into the palm of his other hand. He'd show her. He'd show all of them. Next week, in the Stanton game, he'd show everyone how much of a martyr he was.

He'd stay in college until after that game. Then he'd leave them with a memory they wouldn't quickly forget. Joe began to unpack his bag.

* * *

Because of the two star forwards, Burns and Lockheed, in their line-up, Stanton was the favorite for the big game. This game would have nation-wide interest because the outcome would decide the teams for the invitation tournament at the Garden.

In the first quarter Burns and Lockheed were sensational! Burns chalked up 12 points and Lockheed 10 to give their team a 22-14 bulge at the beginning of the second. Of the 14 points for Norton, Joe had racked up 9 of them.

The teamwork had been ragged throughout the quarter. Joe had held himself in check to allow the glory boys to shine. In the rest period, Coach Harmon was bitter and sarcastic. "You're playing like a bunch of

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chumps," he growled. "Do you have ramrods down your backs? You act like strangers. You're a team, you know. You're all playing for the same college. Remember that."

Captain Davis shrugged as he wiped his face and tossed the towel to Joe. "Maybe if some people could swallow their pride," he said, "we'd all be better off."

Joe bit back the answer that sprang to his lips. Fine talking coming from him. He threw the towel on the bench.

The second quarter began like the first. The zip just wasn't there. Not once did anyone call Joe "Coal Cracker." Even in the closeness of the game his teammates somehow managed to ignore him.

The Stanton team pulled steadily away from them. Burns and Lockheed, working together perfectly, sank shots from every conceivable angle. The Norton guards wore themselves out trying to cover them. At the end of the half the score stood at 40-28.

A stunned silence crept over the Norton fans. Everyone knew Stanton was a powerhouse, but no one dreamed the game would be so one sided. A groan escaped from the Norton side when the gun sounded ending the half, and the tired players trudged down to the locker room.

Joe suppressed a slight smile of triumph as he followed his team out. He had deliberately played far below his normal game, just to show them. The results were apparent. Now where were the heroes? He wondered if the fans were asking the same question.

In the locker room he sank onto a bench. Out of the corner of his eye he saw Davis watching him. The captain looked puzzled. Joe chuckled to himself. He had given the big stiff something to think about. And the rest of them, too. Maybe now they'd miss him.

He frowned as he saw Davis approach him, a tight smile on his lips. "Tezak?" Davis said quietly.

Joe lifted his eyes. "Yes?"

Davis shifted his weight uncomfortably as he groped for words. "I don't know whether this is the time to bring this up," he began, "but I had a long talk with Sylvia. . . ."

"I bet you did," Joe cut in dryly.

Davis flushed. "Perhaps I was wrong about some things. Perhaps you were, too." Then he shrugged. "That's neither here nor there. But the point is," he continued, "are we going to let our personal differences lose this game?"

Joe almost laughed aloud. The glory grabber was worried. The game was getting out of hand and he couldn't salvage it. Again Davis turned to him for a victory so he could stay in the limelight.

"You play your game," Joe said slowly, "I'll play mine."

Davis opened his mouth to retort, then thought better of it. His face dark with anger, he turned and walked away. Joe followed with an amused glance. At least he had gotten a rise out of the big-time operator. Joe stretched full length on the bench and stared thoughtfully at the ceiling. He wondered how long it would take to

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get used to swinging a pick in a dusty, dark coal pit?

On the tap off beginning the third quarter, Joe gained possession of the ball. He dribbled in under the basket and weaved around the guard who stuck close by him. The shot was perfect. The Norton cheering section perked up.

Passing skillfully and using his height to good advantage, Joe was in on every play and literally commanded the backboard. He no longer was playing just to win. As part of his plan he was playing to show them what Joe Tezak, the coal miner's son, could do. To show these bluebloods that the fellow they looked down their noses at was someone to be reckoned with. Someone they would miss next year.

Joe's main reason for playing brilliantly was sitting behind the cheer leaders. He had spotted Sylvia the moment he had stepped onto the court. In her school sweater with the big crimson "N" on it, she had arrived with a crowd of her classmates.

Seeing the way the battle was swinging, the Stanton coach directed two men to cover him. Joe chuckled. Let the whole team cover him. This was his game. Time after time he broke through the strong defense and made his shots. His aim was unerring. And so closely was he guarded that he was fouled repeatedly.

The foul shots were easy for him. He missed but one of seven tries in the third quarter. The third ended with Stanton clinging to a 54-48 margin. Joe had personally accounted for 16 points in this quarter alone. It was the most sensational exhibition that had ever been seen in the Norton gym, and the fans were deliriously happy.

Joe sat in the huddle waiting for some word of praise from his teammates. None was forthcoming. They talked casually to one another. The few remarks directed toward him were excessively polite and guarded. They acted as if they were afraid of hurting his feelings.

Joe was very sober as he stared about him. Somehow his plan was not working out. He was saving the game for them but they weren't even grateful. They accepted his superb playing as if it were expected. His duty. The duty of each of them to give his best for dear old Norton.

But what had dear old Norton ever given him? A thought struggled in his whirling mind. Could it be that Sylvia had been right when she said he spent too much time feeling sorry for himself?

The referee's whistle shrilled, cutting the thought short. Joe leaped to his feet and went over to cover his man. He took the ball on the tap off from Norton's lanky center and worked his way quickly in under the Stanton basket. The two guards swarmed on him. Joe dribbled the ball, trying to feint them out of position for a shot.

A crimson-clad figure streaked in under the basket. "Pass it, Joe!" Davis called.

Joe hesitated a moment, then flipped the ball to his teammate. Davis sunk the peep shot with ease.

Davis brushed past him on the way back into position. He smiled. "Nice work, Joe."

Joe nodded absently as he pondered over the words. Davis sounded sincere—no doubt about that. But why?

Joe continued to wonder as the game progressed. He tried to straighten his thoughts, but they became more jumbled. Had he ever really given anyone at Norton a chance to know him—except Sylvia? Hadn't he come to school with a chip on his shoulder?

The nickname "Coal Cracker" had been given to him by Davis, but did that imply an insult? Or was the insult imagined—by Joe himself? He *had* set himself apart from the others—because *he* felt he didn't belong. Had he done the wrong thing? He'd have to figure it out before he messed up his life for good.

During time out Joe looked at his teammates as if he were seeing them for the first time. His glance swept to the scoreboard which showed the score at 64-60 with about three minutes to

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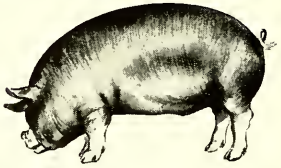

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go. Joe cleared his throat nervously.

"Fellows," he began, "I think we can take these guys." He felt a hot flush in his face as the team eyed him in surprise. It was the first time in the many games they had played together that he had spoken up.

"Don't see why not," answered the captain, casually. "That is if you keep sinking them like you have been . . . Coal Cracker," he added softly.

Joe grinned. Somehow the hated words lost their sting. Maybe it was the tone of voice the center used. The note of respect. "Let's keep pouring it on, gang," he said earnestly.

Davis stared at him for a long moment. Joe returned the look. Then a slow grin swept into the captain's face. He nodded. "You lead the way, chum."

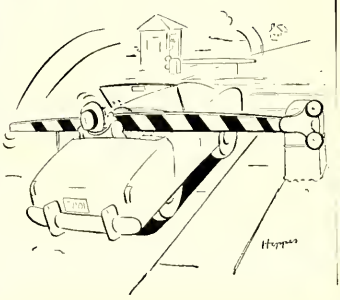
Joe took the ball on the toss in and worked it swiftly under the basket. He worked the crisscross pass with Davis and the lanky center came into position directly under the basket and took the ball to net it.

Burns, of Stanton, barely missed another try, and Joe took the rebound. From outside the circle he arched a beautiful long shot to bring the score to 68-64 with less than a minute remaining. Stanton tried stalling tactics and ate up time as the Norton section went wild, screaming for their team to get the ball. Joe did get his hands on a short pass enough to deflect it, and Davis was on it like a shot.

He passed to Joe, who worked the ball in under the basket, weaved around the guard who was covering him, and sank the shot. At that moment the guard fouled him. A hush fell over the gym as Joe lined up for his free shot. The ball sailed through the cords to bring the score to 68-67 and it was still Norton's ball from out of bounds with 10 seconds to go. Davis called for time out.

"We'll have time for about one play," Davis said breathlessly. He glanced at Joe. "It's up to you, Coal Cracker."

Joe shook his head unbelievingly. Was it possible the glory grabber was giving him this opportunity to score the winning marker? "You take it in," he said.



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"What, and flub it?" Davis shook his head. "You're the man, Joe." He held out his hand. "Okay?"

Joe shook his hand. "Okay."

A hush fell over the crowd as the teams lined up for these crucial seconds. The shrill of the referee's whistle cut through the silence like an A-bomb. The Norton guard tossed the ball to Davis, who faked a throw, then slipped the ball to Joe who was setting himself for a shot from the outside. A long shot—his specialty.

But the alert Stanton guards were on Joe like a whirlwind. He deftly weaved around to clear the grasping hands that windmilled in front of him. Out of the corner of his eye he saw a crimson figure streak in under the basket. "Take it, Davis," he called, snapping the ball on the floor in a twisting bounce. He had gauged his throw right. The ball bounced into the hands of the startled captain, who arched up with it and slipped it against the backboard.

The ball rolled crazily for a moment around the hoop, then fell through it. The gun sounded a second later. A deafening roar cut loose from the Norton rooters, who stormed down on the floor to greet their heroes.

Joe stood for a long moment in front of the basket. Then, instead of walking away as he usually did, he ran forward to meet Davis, who was coming toward him, hand outstretched. As the two men met, the crowd swirled around them and lifted them on their shoulders.

"Nice going, Coal Cracker," Davis said, winking at him.

Joe gulped. "You didn't do so bad yourself, chum."

"We're a cinch for the Garden now," Davis said gleefully.

Joe nodded. Then he looked about him. He saw the slim figure in the crimson "N" sweater struggling through the crowd toward him. Sylvia's face was alight with joy. She waved.

He waved back and scrambled down from the shoulders on which he was perched. As he struggled through the crowd of friendly faces to meet her, the coal mines seemed far, far away.

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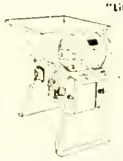

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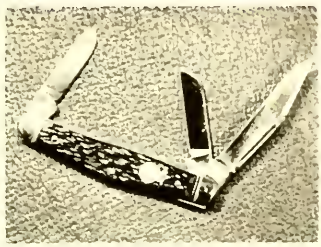

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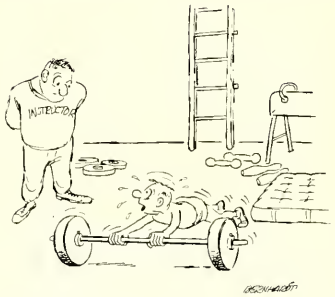

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The sheriff exploded, *"Are you trying to sneak this varmint into heaven when he ain't even fit to live in Texas?"*

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A lady was mailing one of the new revised Bibles to her son. *"Is there anything breakable in this package?"* asked the postmaster.

"Well," timidly replied the little old lady, *"only the Ten Commandments."*

Robert Parsons
Smithdale, Mississippi

The salesgirl was describing the new four-piece outfit a model was wearing: *"If you remove the bodice you will have a playsuit. If you remove the skirt you will have a sunsuit. If you remove anything else you will have a lawsuit."*

Robert Grady
Monona, Iowa

Two small boys were walking home from school when they saw a boy from their class. Jack said, *"There goes teacher's pet."*

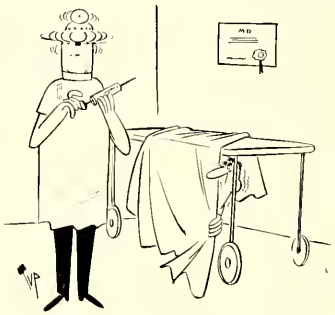
"Yeh," Bill replied, *"if he said two and two were four she'd say he was right."*

JoAnne Childens
Booneville, Mississippi

Lawyer: *"You say you were about 35 feet from the scene. Just how far can you see?"*

Farmer: *"Well, when I wake up I see the sun and they tell me it's about ninety-three million miles away."*

Willie James
Laris, South Carolina



A hillbilly who had to spend a night in Little Rock saw an electric light for the first time in his life. Returned to his mountain shack, he told his wife, *"Don't know how them city folks catch any sleep. There was a big light burning in my room right through the night."*

"Why didn't you blow it out?" asked his wife.

"Gol dang it, I couldn't," grumbled the hillbilly. *"It was in a bottle."*

Marvin Peatrowsky
West Point, Nebraska

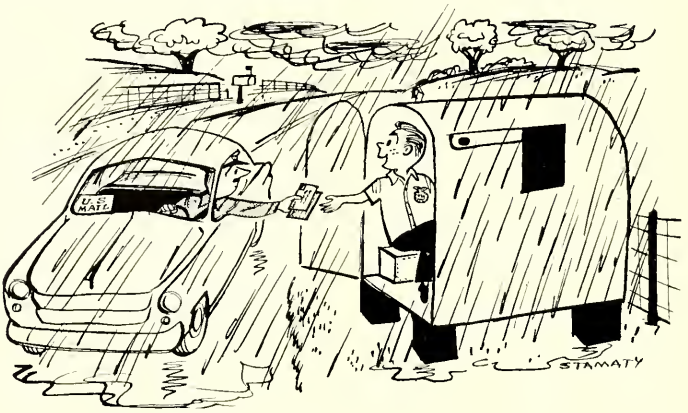
Joe: *"She said she'd be faithful to the end."*

Bob: *"That sounds good."*

Joe: *"Yes, but I'm the quarterback!"*

Gaylon Shipe
Lost City, West Virginia

Charlie, THE GREEN HAND



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IT'S the country's most talked about tractor—the 4-5 Plow Diesel that's *performing* its way right into the hearts of farmers everywhere.

Here's *extra lugging power* that does away with slow ups and down shifting in heavy going . . . power with matching speeds to work big equipment at maximum capacity and cut days off your working calendar.

Here's *extra economy* that will drive your production costs down and boost your profits. In official Nebraska tractor tests, the "70" Diesel set a new record for fuel economy—a record that is being proved in the field every day. Likewise, maintenance costs are definitely lower because the "70" Diesel is a *two-cylinder* tractor with practically half-as-many, twice-as-husky engine parts.

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Sets a new high in "pick up and go" farming. Traction-Trol insures more effective use of tractor horsepower. Smoothly and automatically, it increases weight on tractor drive wheels in proportion to the load—reduces wheel slippage—without changing depth or affecting tractor stability. Shown here with a brand-new, big-capacity 4-bottom pickup plow designed for the Model "70."

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NEW POWER PRINCIPLE PUTS YOU ACRES AHEAD

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You will instantly recognize the importance of this fundamental advancement when you see the WD-45 pulling the new Allis-Chalmers 10 or 12½-foot double action disc harrow . . . discing up to 50 or 60 acres a day . . . or . . . when you watch it handle the new 4-bottom moldboard plow or heavy-duty, 4-blade disc plow.

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